Northeast Laboratory SERVICES
P.O. Box 788
Waterville, Maine 04903-0788

RT. 137, China Road
Winslow, Maine 04901

ANALYSIS REPORT

Administrative Offices
Phone: 207-873-7711
Fax: 207-873-7022
Customer Service
Phone: 800-244-8378
Fax: 207-873-7022

Attention: RANDY MCCANDLESS
PO BOX 105
BINGHAM ME 04920

Lab ID Number: PC05145
P.O. Number: PC05145AMEX
Date Collected: 07/21/2003 02:20 PM
DateReceived: 07/22/2003 09:00 AM
Date Reported: 07/23/2003

Well Owner: Moscow Radar Station
Well Location: Stream Rd Bingham ME
Well Type:
Sample Type: Potability

Parameter	Result	Unit	Detection Limit	Method	Preparation Date	Analysis Date	Analyst
Arsenic, Total	0.016	mg/L	0.005	EPA 200.9	07/23/03	07/23/03	MRB

* This result is above the Maine State Maximum Exposure Guideline (MEG) of 0.010mg/L and effective 2/22/02 is above the EPA Maximum Contamination Level (MCL) of 0.010mg/L. This water may be unsatisfactory for drinking. Please contact one of the Bureau of Health's Maine State Toxicoligists, toll free, at 1-866-292-3474 for further information.

Chloride	<2.0	mg/L	2.0	EPA 300.0	07/22/03	07/22/03	BEG
Copper Total	<0.05	mg/L	0.05	EPA 200.7	07/23/03	07/23/03	MRB
Escherichia coli - Potable Water	See Comment	CFU/100mL	0	EPA 600-R-00-013	07/22/03	07/23/03	BAG

* This water is unsatisfactory for drinking due to overgrowth of the testing medium by non-coliform (background) bacteria. Coliform bacteria may be present but not detectable due to interference from these background bacteria. A retest must be made after disinfection of the well.

Please see the enclosed kit and interpretation sheet for more information, including procedure for well disinfection.

Iron Total	0.055	mg/L	0.05	EPA 200.7	07/23/03	07/23/03	MRB
Hardness by calculation	48	mg/L	10	EPA 200.7	07/23/03	07/23/03	MRB
Manganese Total	<0.02	mg/L	0.02	EPA 200.7	07/23/03	07/23/03	MRB
Sodium Total	3.7	mg/L	1.0	EPA 200.7	07/23/03	07/23/03	MRB
Nitrite-Nitrogen	<0.2	mg/L	0.2	EPA 300.0	07/22/03	07/22/03	BEG
Nitrate-Nitrogen	<2.0	mg/L	2.0	EPA 300.0	07/22/03	07/22/03	BEG
Lead Total	<0.01	mg/L	0.010	EPA 200.7	07/23/03	07/23/03	MRB

This sample is assumed to be a source water sample. This analysis was performed by a screening method only. If you would like your result confirmed by EPA method 200.9, please call the lab for a kit. If this sample was a first draw for tap water it should have been sampled in a one liter bottle to be in compliance with the Maine State Drinking water Lead and Copper Rule. See 40 CFR 141.86 (b).

pH Electrometric	7.9	stu	2.0	EPA 150.1	07/22/03	07/22/03	BEG
Total Coliform Bacteria - Potable Water	See Comment	CFU/100mL	0	EPA 600-R-00-013	07/22/03	07/23/03	BAG

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Date Reported: 07/23/2003

Well Owner: Moscow Radar Station
Well Location: Stream Rd Bingham ME
Well Type:
Sample Type: Potability

Parameter	Result	Unit	Detection Limit	Method	Preparation Date	Analysis Date	Analyst

* This water is unsatisfactory for drinking due to overgrowth of the testing medium by non-coliform (background) bacteria. Coliform bacteria may be present but not detectable due to interference from these background bacteria. A retest must be made after disinfection of the well.

Please see the enclosed kit and interpretation sheet for more information, including procedure for well disinfection.

Comments:

This water is Unsatisfactory for drinking. Please see specific comment(s) above.

Results are reported on a wet weight basis.

Results meet the requirements of the NELAC standards unless otherwise noted above.

Reviewed By: Kelly A. Perkins **Review Date:** 07/23/2003

Kelly Perkins, Lab Manager

Northeast Laboratory Services
P.O. Box 786
Waterville, Maine 04903-0786

227 China Road
Winslow, Maine 04901

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Customer Service
Phone: 800-244-5378
Fax: 207-873-7622

ANALYSIS REPORT

Attention: RANDY MCCANDLESS
PO BOX 105
BINGHAM ME 04920

Lab ID Number: PE05325
P.O. Number: PE05325 cc
Date Collected: 07/12/2005 02:30 PM
DateReceived: 07/13/2005 09:00 AM
Date Reported: 07/14/2005

Well Owner: US Air Force # 2
Well Location: Stream Rd Sector 2 Moscow Me
Well Type:
Sample Type: Potability

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time	Analyst
Arsenic, Total	0.026		mg/L	0.005	EPA 200.9	07/14/05	8:41	07/14/05 10:37	ASM
* *This result is above the Maine State Maximum Exposure Guideline (MEG) of 0.010mg/L and effective 1/06 is above the EPA Maximum Contamination Level (MCL) of 0.010mg/L. This water may be unsatisfactory for drinking. Please contact one of the Bureau of Health's Maine State Toxicologists, toll free, at 1-866-292-3474 for further information.*									
Chloride, Total	<2.0		mg/L	2.0	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Copper Total	<0.05		mg/L	0.05	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
Total Escherichia coli	0		CFU/100mL	0	EPA 600-R-00-013	07/13/05	11:00	07/14/05 11:00	PBB
Iron Total	0.95		mg/L	0.05	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
* *The iron level is above the desirable limit of 0.3 mg/L.*									
Hardness by calculation	42		mg/L	10	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
Manganese Total	0.08		mg/L	0.02	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
* *The manganese level is above the desirable limit of 0.05 mg/L.*									
Sodium Total	6.0		mg/L	1.0	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
Nitrite-Nitrogen, Total	<0.2		mg/L	0.2	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Nitrate-Nitrogen, Total	<2.0		mg/L	2.0	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Lead Total	<0.01		mg/L	0.010	EPA 200.7	07/14/05	8:00	07/14/05 10:30	MTG
This sample is assumed to be a source water sample. This analysis was performed by a screening method only. If you would like your result confirmed by EPA method 200.9, please call the lab for a kit. If this sample was a first draw for tap water it should have been sampled in a one liter bottle to be in compliance with the Maine State Drinking water Lead and Copper Rule. See 40 CFR 141.86 (b).									
pH Electrometric	7.1		stu	2.0	EPA 150.1	07/13/05	12:44	07/13/05 13:30	MF
Total Coliform Bacteria	0		CFU/100mL	0	EPA 600-R-00-013	07/13/05	11:00	07/14/05 11:00	PBB

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ANALYSIS REPORT

Attention: RANDY MCCANDLESS
PO BOX 105
BINGHAM ME 04920

Lab ID Number: PE05325
P.O. Number: PE05325 cc
Date Collected: 07/12/2005 02:30 PM
DateReceived: 07/13/2005 09:00 AM
Date Reported: 07/14/2005

Well Owner: US Air Force # 2
Well Location: Stream Rd Sector 2 Moscow Me
Well Type:
Sample Type: Potability

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst

Comments:

This water is satisfactory for drinking for the above tests only.

Results are reported on a wet weight basis.

Results meet the requirements of the NELAC standards unless otherwise noted abov

If you have any questions regarding your results please call 1-800-244-8378 ext 301.

Reviewed By: Pamela Doughty **Review Date:** 07/14/2005

Pamela Doughty, Total Quality Manager

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ANALYSIS REPORT

Attention: RANDY MCCANDLESS
PO BOX 105
BINGHAM ME 04920

Lab ID Number: PE05320
P.O. Number: PE05320 cc
Date Collected: 07/12/2005 02:30 PM
DateReceived: 07/13/2005 09:00 AM
Date Reported: 07/14/2005

Well Owner: US Air Force # 3
Well Location: Stream Rd Sector 3 Moscow Me
Well Type:
Sample Type: Potability

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time		Analysis Date/Time	Analyst
Arsenic, Total	0.016		mg/L	0.005	EPA 200.9	07/14/05	8:41	07/14/05 10:15	ASM
* *This result is above the Maine State Maximum Exposure Guideline (MEG) of 0.010mg/L and effective 1/06 is above the EPA Maximum Contamination Level (MCL) of 0.010mg/L. This water may be unsatisfactory for drinking. Please contact one of the Bureau of Health's Maine State Toxicologists, toll free, at 1-866-292-3474 for further information.*									
Chloride, Total	<2.0		mg/L	2.0	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Copper Total	<0.05		mg/L	0.05	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
Total Escherichia coli	0		CFU/100mL	0	EPA 600-R-00-013	07/13/05	11:00	07/14/05 11:00	PBB
Iron Total	0.17		mg/L	0.05	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
Hardness by calculation	71		mg/L	10	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
Manganese Total	<0.02		mg/L	0.02	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
Sodium Total	4.6		mg/L	1.0	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
Nitrite-Nitrogen, Total	<0.2		mg/L	0.2	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Nitrate-Nitrogen, Total	<2.0		mg/L	2.0	EPA 300.0	07/13/05	9:18	07/14/05 08:30	MF
Lead Total	<0.01		mg/L	0.010	EPA 200.7	07/14/05	8:00	07/14/05 10:17	MTG
This sample is assumed to be a source water sample. This analysis was performed by a screening method only. If you would like your result confirmed by EPA method 200.9, please call the lab for a kit. If this sample was a first draw for tap water it should have been sampled in a one liter bottle to be in compliance with the Maine State Drinking water Lead and Copper Rule. See 40 CFR 141.86 (b).									
pH Electrometric	7.5		stu	2.0	EPA 150.1	07/13/05	12:44	07/13/05 13:30	MF
Total Coliform Bacteria	0		CFU/100mL	0	EPA 600-R-00-013	07/13/05	11:00	07/14/05 11:00	PBB

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ANALYSIS REPORT

Attention: RANDY MCCANDLESS
PO BOX 105
BINGHAM ME 04920

Lab ID Number: PE05320
P.O. Number: PE05320 cc
Date Collected: 07/12/2005 02:30 PM
DateReceived: 07/13/2005 09:00 AM
Date Reported: 07/14/2005

Well Owner: US Air Force # 3
Well Location: Stream Rd Sector 3 Moscow Me
Well Type:
Sample Type: Potability

Parameter	Result	Qualifier	Unit	Detection Limit	Method	Preparation Date/Time	Analysis Date/Time	Analyst

Comments:

This water is satisfactory for drinking for the above tests only.

Results are reported on a wet weight basis.

This report shall not be reproduced, except in full, without written permission from Northeast Laboratory Services.

Results meet the requirements of the NELAC standards unless otherwise noted abov

If you have any questions regarding your results please call 1-800-244-8378 ext 301.

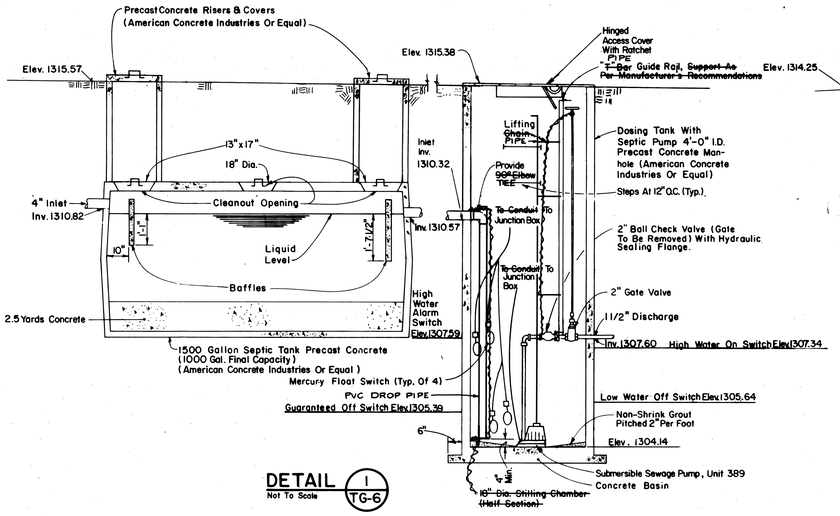
Reviewed By: Pamela Doughty **Review Date:** 07/14/2005

Pamela Doughty, Total Quality Manager

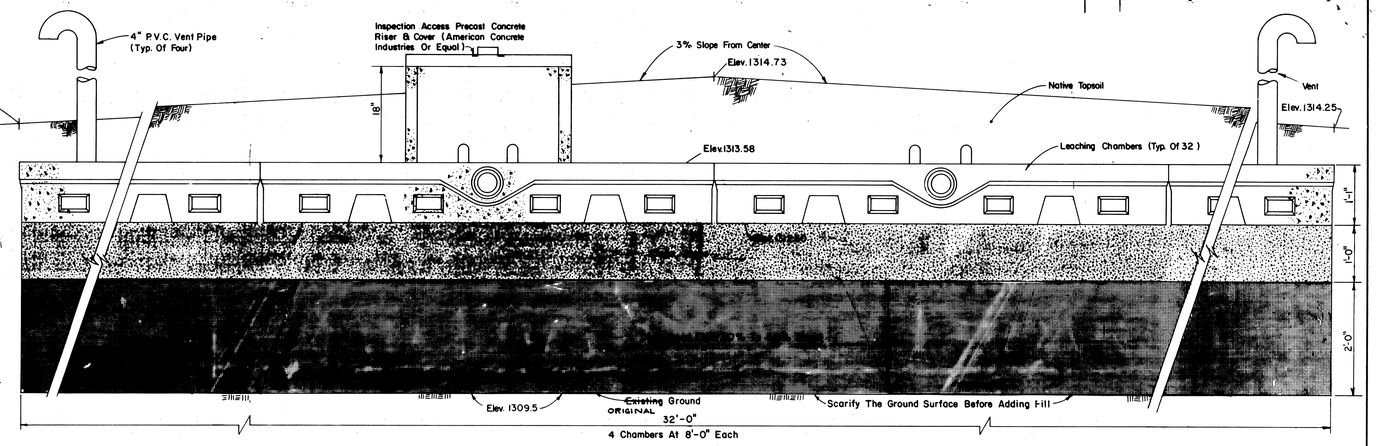
Appendix G-4
Building Specifications

SPECIFICATIONS SHOW THE FOLLOWING INFORMATION:
- SEPTIC SYSTEM LAYOUT
- BUILDING MATERIAL WHICH SHOWS NO ASBESTOS WAS USED
- TRANSFORMER LOCATIONS
- WATER WELL LOCATIONS
- WATER TANK COMPOSITION
- PIPING LAYOUT
- PLUMBING DETAILS

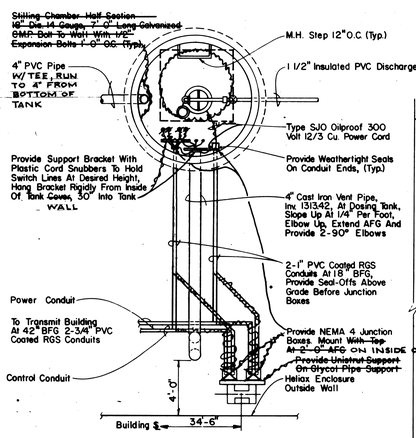
REVISIONS		
LTR	DESCRIPTION	DATE
△	A-B Added Fire Yard Piping In Plan & Profile	3/26/85
C	Added Note 13	3/26/85
	"AS-BUILT" REVISIONS	4/21/87



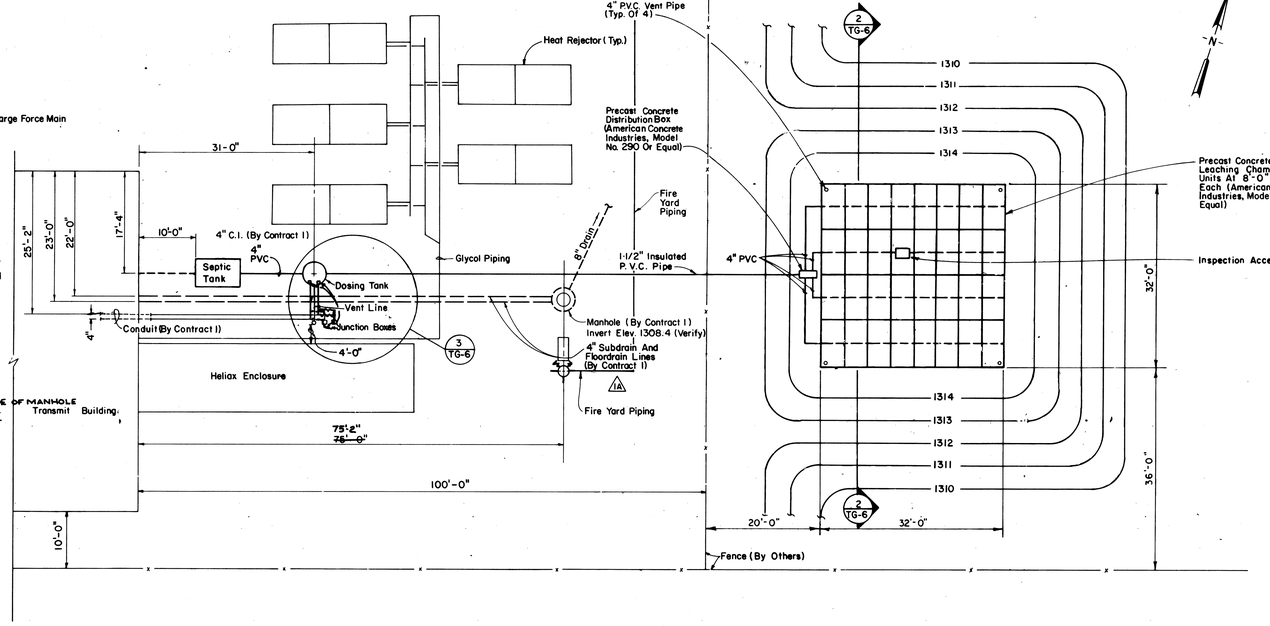
DETAIL 1 / TG-6
Not To Scale



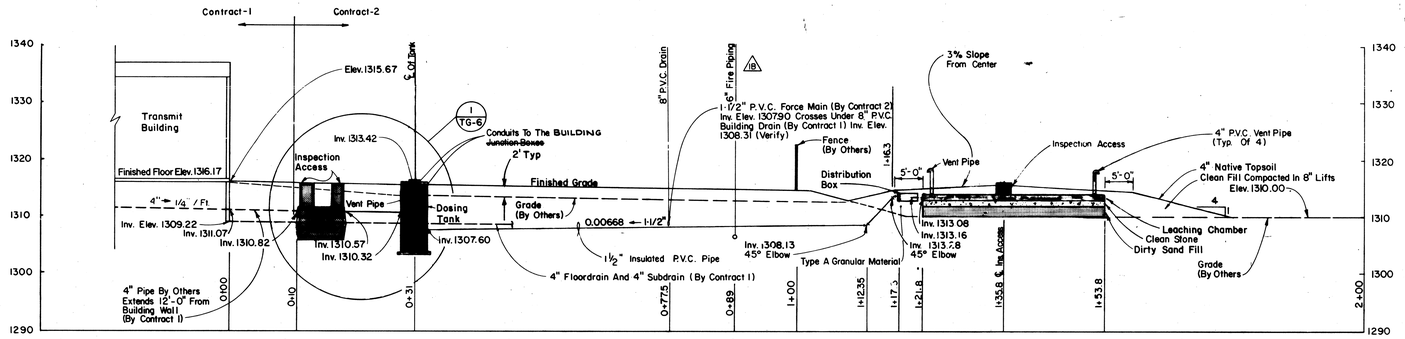
SECTION 2 / TG-6
Scale 1"=1'-0"



DETAIL 3 / TG-6
Not To Scale



PLAN
Scale 1"=10'

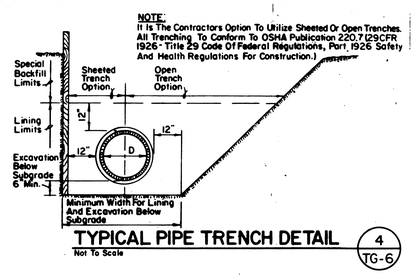


PROFILE
Scale: 1"=10' Horiz
1"=10' Vert.

1" = 1'-0" 0 1 2 Ft
1"=10' 10 0 10 20 Ft

GENERAL NOTES:

1. THE BOTTOM OF THE DISPOSAL AREA AND DISTRIBUTION LINE SHALL BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'. THE SURFACE SHALL BE SCARIFIED PRIOR TO PLACEMENT OF THE SAND FILL.
2. ALL VENTS SHALL EXTEND AT LEAST 3' ABOVE FINISHED GRADE AND BE PROVIDED WITH 1/2" BIRDSCREEN TO PREVENT ENTRY OF FOREIGN OBJECTS.
3. THE CLEAN STONE SHALL BE FREE OF FINES AND ORGANIC MATTER AND RANGE FROM 3/4" TO 3" IN DIAMETER.
4. THE DIRTY SAND FILL BELOW THE LEACHING CHAMBERS SHALL CONSIST OF 20% TO 30% FINES.
5. THE PIPING FROM THE TRANSMITTER BUILDING TO THE SEPTIC TANK SHALL CONSIST OF 4" DIAMETER CAST IRON SOIL PIPE.
6. THE PIPING FROM THE DOSING TANK TO THE DISTRIBUTION BOX SHALL CONSIST OF 1-1/2" INSULATED PVC PIPE.
7. THE PIPING FROM THE SEPTIC TANK TO THE DOSING TANK AND FROM THE DISTRIBUTION BOX TO THE LEACHING CHAMBERS SHALL CONSIST OF 4" PVC PIPE.
8. EACH DISTRIBUTION LINE FROM THE DISTRIBUTION BOX SHALL HAVE A CONSTANT SLOPE WHICH SHALL MEET THE LEACHING CHAMBERS AT THE COMMON INVERT.
9. THE DISTRIBUTION BOX, SEPTIC TANK AND DOSING TANK SHALL BE PROTECTED TO PREVENT THE ENTRANCE OF SURFACE AND GROUND WATER.
10. THE NATIVE SOIL USED FOR FILL ABOVE THE LEACHING CHAMBERS SHALL CONSIST OF THE UPPER LAYER OF LOAM WHICH SHALL BE FREE OF ORGANIC MATTER, PLACED IN 8" LIFTS AND COMPACTED AS PLACED.
11. THE FINISHED DISPOSAL AREA AND FILL EXTENSIONS SHALL BE SEEDED TO PREVENT EROSION.
12. THE DISTRIBUTION BOX SHALL BE BEDDED ON 3' OF TYPE "A" GRANULAR MATERIAL COMPACTED IN 6" LIFTS (MAX.) TO MAINTAIN TRUE LEVEL.
1C 13. A 3" LAYER OF RIGID INSULATION INSTALLED BY CONTRACT 1 EXTENDS 8' FROM THE HELIAX ENCLOSURES. THE CONTRACTOR SHALL REPLACE ALL RIGID INSULATION DAMAGED BY WORK UNDER CONTRACT 2.



TYPICAL PIPE TRENCH DETAIL 4 / TG-6
Not To Scale

AS BUILT
Made by: B.S.M
Checked by: S.W.B.
Date: 4/21/87

REVISION- 1

IN CHARGE OF: J.J. McHerron, P.E.
MADE BY: W.A. Grigsby, P.J. Legnetto
CHECKED BY: B.W. Clark

CONT NO	F19628-82-C-0114
ORIG DATE OF DRAWING	NOV. 83
DRAWN	Paul J. Legnetto
ENGR	James McHerron
CHECKED	Bruce W. Clark
REISSUED	22 FEB. 85

GENERAL ELECTRIC
ESD SYRACUSE, N.Y.
AN/FPS-118
SECTOR 3 TRANSMIT FACILITY
CONTRACT 2
EXTERIOR SANITARY PLAN & DETAILS

SIZE	CODE IDENT NO	DRAWING NO.
E	03538	3 TG-6

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Calocerinos & Spina
CONSULTING ENGINEERS
Liverpool, New York 13088

DATE: MAY 5, 1984
SCALE: AS SHOWN
FILE NO. 458.003
SHEET NO 5

SCHEDULES

DOOR SCHEDULE

LOCATION	CONTRACT NUMBER	DOOR NUMBER	THICKNESS	SIZE 3'-0"x7'-0"	SIZE 4'-0"x7'-0"	SIZE 10'-0"x10'-0"	SIZE 2-3'-0"x7'-0"	SIZE 2-3'-0"x9'-0"(7'-0") △1	TYPE A SINGLE	TYPE B DOUBLE	TYPE C DOUBLE W/TRANSOM △1	TYPE D ROLLING △1	TYPE E WIRE MESH	MATERIAL HOLLOW METAL	MATERIAL GALVANIZED STEEL	MATERIAL INSULATED	MATERIAL FIRE RATING-HRS	FINISH FACTORY PRIMED	FINISH PAINT
EXTERIOR – PUMP ROOM	5	R1																	
INTERIOR – PUMP ROOM	6	R2	1-3/4"	●					●					●	●		1-1/2	●	●
BATTERY ROOM	6	R3	1-3/4"	●					●					●	●		1-1/2	●	●
TOILET	6	R4	1-3/4"	●					●					●	●		NA	●	●
EXTERIOR – CONTROL & MONITOR	5	R5																	
POWER DISTRIBUTION ROOM	6	R6	1-1/4"		●								●		●		NA	●	●
EXTERIOR – UTILITY ROOM	5	R7																	
GENERATOR ROOM	6	R8	1-3/4"				●			●				●	●		1-1/2	●	●
CONTROL & MONITOR ROOM	6	R9	1-3/4"					●			●			●	●		1-1/2	●	●

DOOR NUMBER	ACCESSORIES CHAIN OPERATOR	ACCESSORIES GLAZING 10"x10"	ACCESSORIES LOUVER 24"x24"	ACCESSORIES LABEL	FRAME F1 HOLLOW METAL	FRAME F2 STEEL CHANNEL	FRAME F3 PRE-ENGINEERED	FRAME TRANSOM △1	HEAD	JAMB	FINISH FACTORY PRIMED	FINISH PAINT
R1												
R2		●		B	●						●	●
R3		●		B	●						●	●
R4			●		●						●	●
R5												
R6						●					●	●
R7												
R8				B	●						●	●
R9		2		B	●			●			●	●

HARDWARE SCHEDULE

DOOR NUMBER	BUTTS 1-1/2 PAIRS 4-1/2"x4-1/2"	BUTTS 3 PAIRS 4-1/2"x4-1/2"	LOCKSETS CYPHER LOCK	LOCKSETS LOCK CYLINDER	U.S. GOVERNMENT STANDARD 86 △2A PASSAGE	OFFICE	DEAD LOCK	SURFACE BOLTS	CHAIN LOCK	SURFACE HARDWARE DOOR CLOSER	PUSH PLATE	PULL PLATE	PANIC BAR	8x34 KICKPLATE	INTERMEDIATE BOLTS	TOP BOLTS & PULL	MAGNETIC ASTRAGAL △2C	EXTERIOR HARDWARE THRESHOLD	WEATHERSTRIPPING	SILL STRIP	FL.MT. DOOR STOP	FINISH
R1																						
R2	●				●					●				●								
R3	●				●					●												
R4	●						●			●	●	●		●							●	US26D
R5																						
R6	●			●								●										
R7														X								
R8		●			● △2B			●		●				●				●	●	●		
R9		●	△1			●		●		●				●			● △2D	●	●	●	△2E	

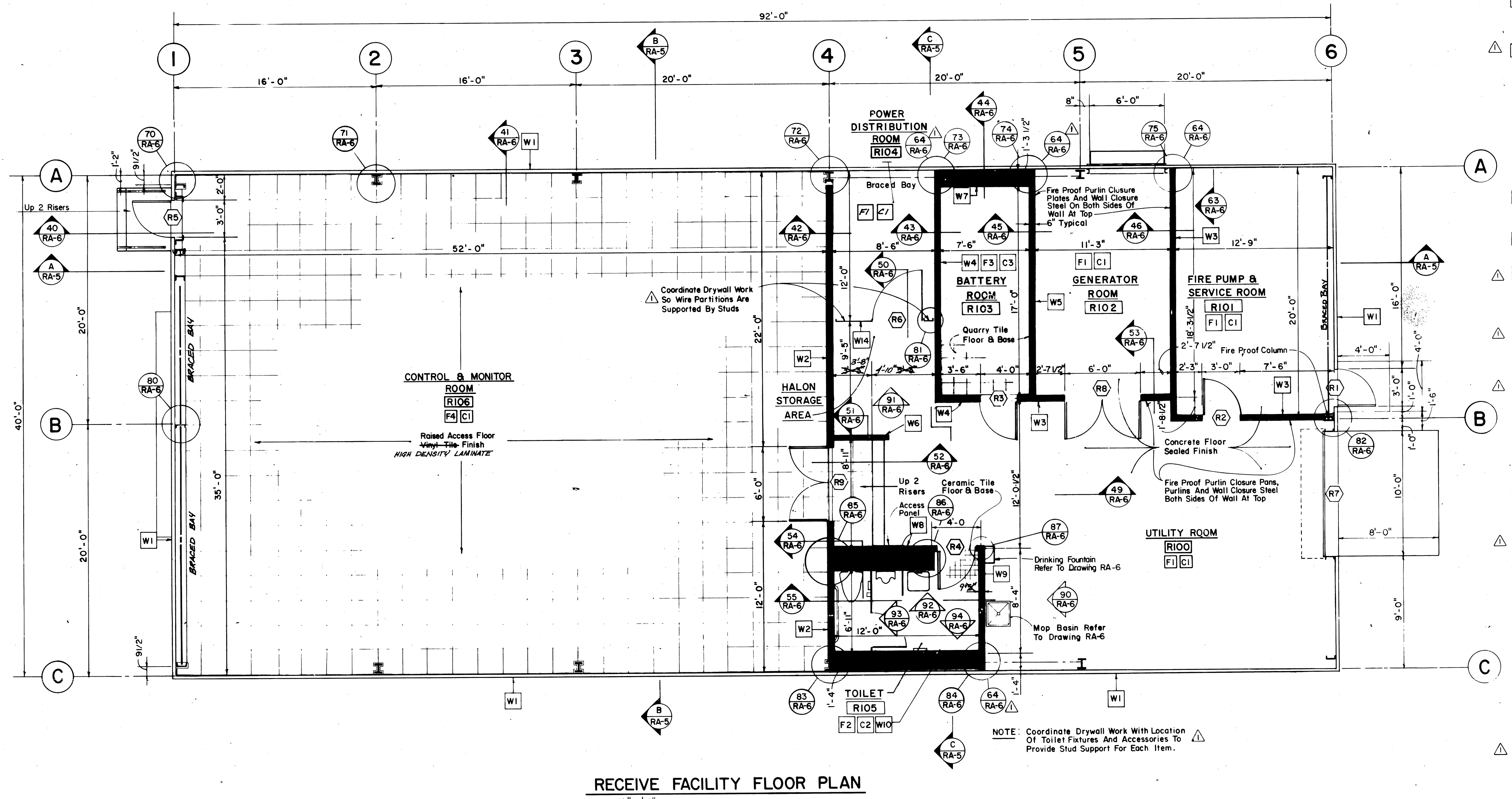
ROOM FINISH SCHEDULE

⑤ Indicate Finishes Provided By Contract 5

ROOM NUMBERS	ROOM NAME	WALLS CERAMIC WAINSCOT	WALLS TYPE X DRYWALL	WALLS W.P DRYWALL	WALLS PREFINISHED PANEL	WALLS PAINT	WALLS WIRE MESH	WALLS FIRE RATING-HRS	FLOOR CONCRETE	FLOOR CLEAR SEALER	FLOOR CERAMIC	FLOOR RAISED FLOOR 1'-4"	FLOOR QUARRY TILE	BASE RUBBER 4" HIGH	BASE CERAMIC	BASE QUARRY TILE	BASE RUBBER 6" HIGH	CEILING W.P DRYWALL	CEILING EXPOSED	CEILING TYPE X DRYWALL	CEILING PAINT	CEILING HEIGHT	REMARKS
R100	UTILITY		●		⑤	●	●	NA	⑤	●				●					⑤				Rubber Base At Drywall Partitions Only
R101	PUMP ROOM		●		⑤	●		2	⑤	●							●		⑤				Rubber Base At Drywall Partitions Only
R102	GENERATOR		●		⑤	●		2	⑤	●							●		⑤				Rubber Base At Drywall Partitions Only
R103	BATTERY		●			●		1					●			●				●	●	9'-1"	
R104	POWER		●		⑤	●	●	NA	⑤	●				●					⑤				Rubber Base At Drywall Partitions Only
R105	TOILET	●	●	●		●		NA			●				●			●			●	9'-5-1/2"	Type X Drywall On W2 △1
R106	CONT. & MON.		●		⑤	●		1	⑤	NOTE		●		●					⑤				Rubber Base At Drywall Partitions, Level With Raised Floor; Epoxy Paint Concrete Floor See Specification

REVISIONS

LTR	DESCRIPTION	DATE
△1	Revised Schedules Added Notes Revised Elevations	6-8-84
△2	A-B. In Hardware Schedule Under Lockset Changed "Entrance" To "Office" Added Indication For Door R-9, And Deleted Door R-9 From "Passage" Column ECNR-18	3/15/85
	C-D. Under Surface Hardware Changed "Security Bar" To "Magnetic Astragal" And Added Indication For Door R-9 ECNR-18	3/15/85
	E.- Added A Floor Mounted Door Stop To Door R4 In Hardware Schedule. ECNR-35	12/10/85
	"AS-BUILT" REVISIONS	12/1/86



RECEIVE FACILITY FLOOR PLAN
Scale: 1/4" = 1'-0"

WALL SCHEDULE

△1 ALL WALL TYPES: INTERIOR PARTITIONS ARE FABRICATED WITH 18 GAUGE METAL STUDS PLACED 1'-4" O.C. ALL STUD WORK SHALL HAVE 3/4" METAL CHANNEL BRIDGING AT 4'-0" O.C. ALL DRYWALL IS TYPE X, EXCEPT AS NOTED FOR WATERPROOF DRYWALL IN TOILET ROOM. DOUBLE LAYERS OF 1/2" DRYWALL ARE USED WHERE NOTED.

- W1 - FACTORY INSULATED EXTERIOR WALL PANEL, MAXIMUM U VALUE .05, BY CONTRACT 5.
- W2 - INTERIOR INSULATED FIRE RATED PARTITION, ONE LAYER DRYWALL EACH SIDE. PROVIDE 3-1/2" FIBERGLASS BATT INSULATION WITH KRAFT VAPOR BARRIER IN BETWEEN STUDS, VAPOR BARRIER TO FACE AWAY FROM R106. EXTEND WALLS TO UNDERSIDE OF ROOF TRUSS CLOSURE STRIP. PROVIDE CERAMIC TILE WAINSCOT TO 3'-8" A.F.F. IN TOILET ROOM R105. FIRE RATING ONE (1) HOUR.
- W3 - INTERIOR FIRE RATED PARTITION, TWO LAYERS DRYWALL EACH SIDE. EXTEND WALLS TO THE UNDERSIDE OF ROOF PURLIN CLOSURE STRIP. PROVIDE EXPANSION CLOSURE STRIPS AT WALL INTERSECTIONS AS DETAILED. PROVIDE 3-1/2" FIBERGLASS BATT INSULATION, UNFACED BETWEEN ALL METAL STUDS. FIRE RATING TWO (2) HOURS.
- W4 - INTERIOR FIRE RATED SELF-SUPPORTING PARTITION, ONE LAYER DRYWALL EACH SIDE. EXTEND STUDS TO 10'-0" A.F.F. EXTEND BATTERY ROOM DRYWALL 10'-0" A.F.F. TO JOISTS. EXTEND OUTER DRYWALL TO 10'-6" A.F.F. TO CONCEAL JOIST HEADERS. FIRE RATING ONE (1) HOUR.
- △1 W5 - INTERIOR FIRE RATED COMMON WALL PARTITION
  - EXTEND STUDS TO UNDERSIDE OF BATTERY ROOM JOIST CLOSURE CHANNEL AT 10'-0" A.F.F. AND ABOVE JOISTS TO UNDERSIDE OF ROOF CLOSURE STRIP.
  - PROVIDE 3-1/2" FIBERGLASS BATT INSULATION, UNFACED BETWEEN ALL METAL STUDS.
  - ROOM R103 SIDE: EXTEND TWO LAYERS OF DRYWALL FULL HEIGHT CUTTING OUT FOR CEILING JOISTS.
  - ROOM R102 SIDE: EXTEND TWO LAYERS OF DRYWALL FULL HEIGHT.
  - FIRE RATING TWO (2) HOURS.
- W6 - INTERIOR PARTIAL HEIGHT PARTITION, ONE LAYER DRYWALL EACH SIDE. EXTEND STUDS 3'-6" ABOVE RAISED FLOOR AT LANDING. FASTEN 1 x 6 HARDWOOD TOP RAIL TO TOP METAL CHANNEL.
- W7 - INTERIOR FIRE RATED FURRED PARTITION, TWO LAYERS DRYWALL ONE SIDE. EXTEND DRYWALL TO 10'-0" ABOVE FINISHED FLOOR TO JOIST LINE. FIRE RATING ONE (1) HOUR.
- △1 W8 - INTERIOR WATERPROOF DRYWALL CHASE WALL, ONE LAYER TYPE X DRYWALL ON ROOM R100 SIDE, EXTEND TO 10'-0" ABOVE FINISHED FLOOR. ONE LAYER 1/2" WATERPROOF DRYWALL, 3'-8" CERAMIC TILE WAINSCOT ON ROOM R105 SIDE, EXTEND DRYWALL TO 9'-6" A.F.F. TO JOISTS. 3/4" CHANNEL BRIDGING BETWEEN STUDS.
- △1 W9 - INTERIOR WATERPROOF DRYWALL PARTITION, ONE LAYER TYPE X DRYWALL ON ROOM R100 SIDE, EXTEND TO 10'-0" A.F.F. ONE LAYER 1/2" WATERPROOF DRYWALL ROOM R105 SIDE WITH 3'-8" CERAMIC TILE WAINSCOT, EXTEND WALL TO 9'-6" ABOVE FINISHED FLOOR, TO JOISTS.
- △1 W10 - INTERIOR WATERPROOF DRYWALL FURRED PARTITION, ONE LAYER 1/2" WATERPROOF DRYWALL ON ROOM R105 SIDE, WITH 3'-8" CERAMIC TILE WAINSCOT. EXTEND STUDS TO 9'-6" ABOVE FINISHED FLOOR, TO JOISTS.
- W14 - INTERIOR FREE-STANDING WIRE MESH PARTITIONS, 10 GAUGE 1-1/2" WIRE MESH FABRIC, STEEL ANGLE OR CHANNEL FRAME, STEEL FLOOR MOUNTING POSTS, SWING DOOR HARDWARE, FACTORY PREFINISHED, TEN FEET HIGH.

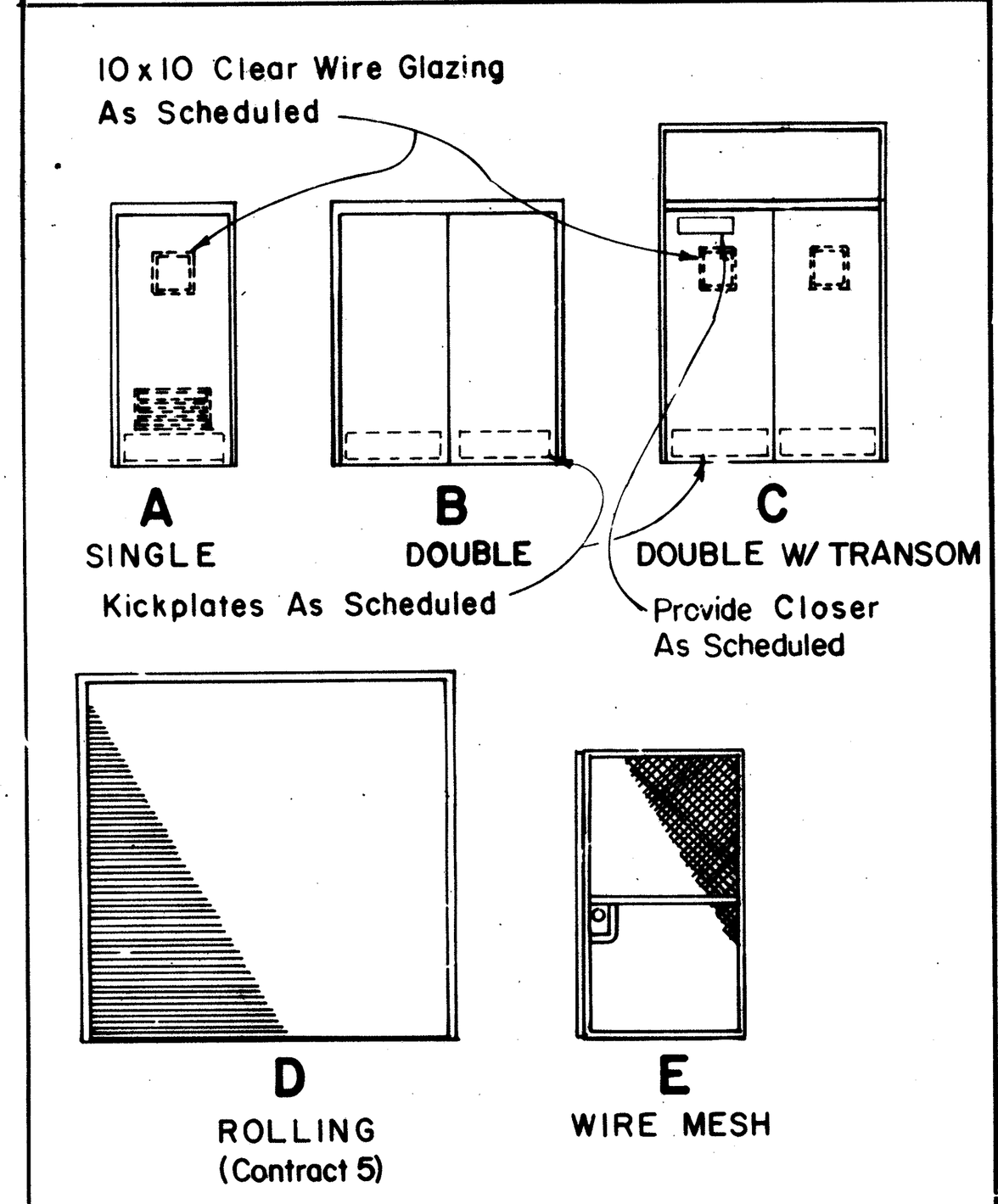
CEILING SCHEDULE

- C1 - EXPOSED UNDERSIDE OF FACTORY INSULATED EXTERIOR ROOF PANEL. MAXIMUM U VALUE .05, BY CONTRACT 5.
- △1 C2 - INTERIOR DRYWALL CEILING - ONE LAYER 1/2" WATERPROOF DRYWALL FASTENED TO 18 GAUGE, 6" STEEL JOISTS AT 1'-4" O.C., WITH BRIDGING AT MIDSPAN.
- C3 - INTERIOR FIRE RATED DRYWALL CEILING AND STEEL DECK, TWO LAYERS 1/2" TYPE X DRYWALL FASTENED TO 18 GAUGE, 6" STEEL JOISTS AT 1'-4" O.C. BRIDGING AT MID SPAN. PROVIDE A 22 GAUGE 1-1/2" DEEP TYPE N STEEL DECK ABOVE JOISTS, SPOT WELD, CLEAN AND TOUCH UP PRIMER 8" O.C. FIRE RATING ONE (1) HOUR.

FLOOR SCHEDULE

- F1 - EXPOSED STEEL TROWEL CONCRETE FLOOR SLAB BY CONTRACT 5. ACID ETCH AND FINISH CLEAR SEALER BY CONTRACT 6.
- F2 - MATTE GLAZED CERAMIC TILE FLOOR, 2 x 2 INCH TILES, ~~WATER-PROOF~~ GROUT, 3/4" DEEP MORTAR BED. ~~4 MIL THICK POLY-ETHYLENE MEMBRANE,~~ RECESSED CONCRETE FLOOR SLAB.
- F3 - MATTE GLAZED QUARRY TILE FLOOR, ~~8 x 8~~ 6x6 x 5/8 INCH TILES, CHEMICALLY RESISTANT FURAN GROUT, 1/8" CHEMICALLY RESISTANT ADHESIVE, RECESSED CONCRETE FLOOR SLAB.
- △1 F4 - RAISED ACCESS FLOORING ON CONCRETE SLAB
  - CONCRETE SLAB FINISHED AND SEALED WITH EPOXY PAINT PER SPECIFICATIONS.
  - RAISED FLOORING - 2' x 2' GRID STEEL AND FRT WOOD PANELS, NON-CONDUCTIVE ~~VINYL WEARING~~ HIGH DENSITY LAMINATE SURFACE.

DOOR ELEVATIONS
Not To Scale



AS BUILT
Made by: M.J.D.
Checked by: S.W.B.
Date: DEC. 1, 1986

REVISION-X2

CONT NO	F19628-82-C-0114
ORIG DATE OF DRAWING	1 NOV. '83
DRAWN	Peter C. Lemonides
ENGR	James McHerron
CHECKED	M. P. Nowak R.A.
ISSUED	5 MAY '84

GENERAL ELECTRIC
ESD SYRACUSE, NY
AN/FPS-118
SECTOR 2 RECEIVE FACILITY
CONTRACT 6

FLOOR PLAN & SCHEDULES

SIZE	CODE IDENT NO	DRAWING NO.
E	03538	2 RA-4

DATE	MAY 5, 1984	SHEET NO 7
SCALE	AS SHOWN	
FILE NO	458.003	

Calocerinos & Spina
CONSULTING ENGINEERS
Liverpool, New York 13088

1/4" = 1'-0" (graphic scale 2 0 2 4 6 8 10 Ft.)

IN CHARGE OF: J.I. McHerron, P.E.
MADE BY: P.C. Lemonides
CHECKED BY: M.P. Nowak, R.A.

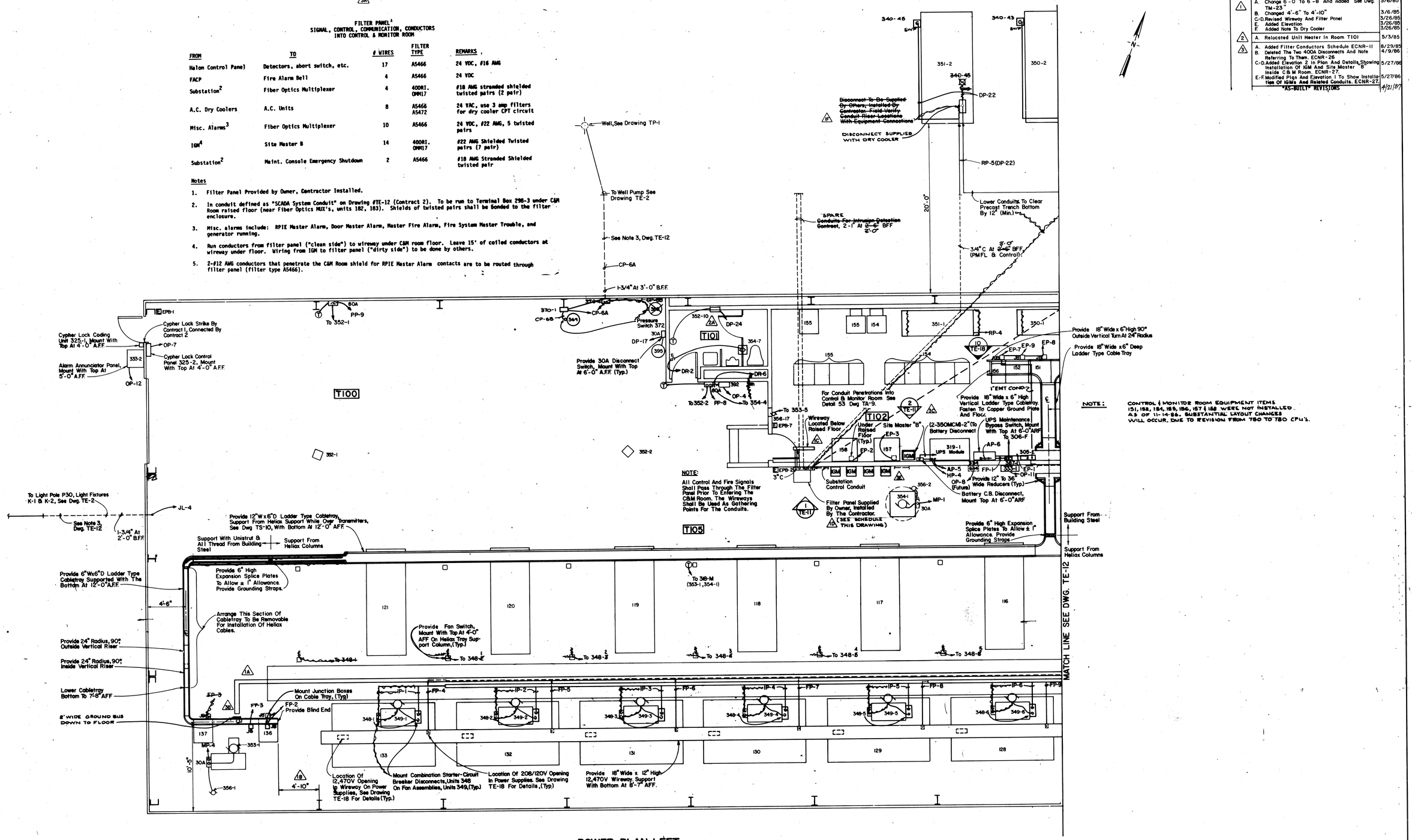
FILTER PANEL[4]
SIGNAL, CONTROL, COMMUNICATION, CONDUCTORS INTO CONTROL & MONITOR ROOM

FROM	TO	# WIRES	FILTER TYPE	REMARKS
Halon Control Panel	Detectors, abort switch, etc.	17	A5466	24 VDC, #16 AWG
FACP	Fire Alarm Bell	4	A5466	24 VDC
Substation[2]	Fiber Optics Multiplexer	4	400RI. OMM17	#18 AWG stranded shielded twisted pairs (2 pair)
A.C. Dry Coolers	A.C. Units	8	A5466 A5472	24 VAC, use 3 amp filters for dry cooler CPT circuit
Misc. Alarms[3]	Fiber Optics Multiplexer	10	A5466	24 VDC, #22 AWG, 5 twisted pairs
IGM[4]	Site Master B	14	400RI. OMM17	#22 AWG Shielded Twisted pairs (7 pair)
Substation[2]	Maint. Console Emergency Shutdown	2	A5466	#18 AWG Stranded Shielded twisted pair

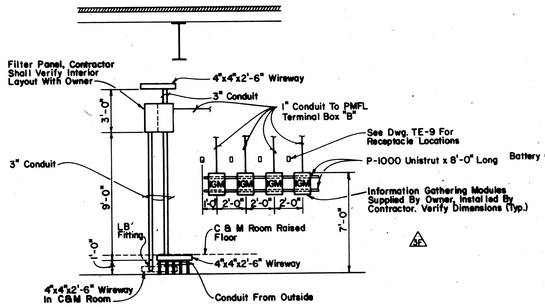
Notes

1. Filter Panel Provided by Owner, Contractor Installed.
2. In conduit defined as "SCADA System Conduit" on Drawing #TE-12 (Contract 2). To be run to Terminal Box 298-3 under C&M Room raised floor (near Fiber Optics MUX's, units 182, 183). Shields of twisted pairs shall be bonded to the filter enclosure.
3. Misc. alarms include: RPIE Master Alarm, Door Master Alarm, Master Fire Alarm, Fire System Master Trouble, and generator running.
4. Run conductors from filter panel ("clean side") to wireway under C&M room floor. Leave 15' of coiled conductors at wireway under floor. Wiring from IGM to filter panel ("dirty side") to be done by others.
5. 2-#12 AWG conductors that penetrate the C&M Room shield for RPIE Master Alarm contacts are to be routed through filter panel (filter type A5466).

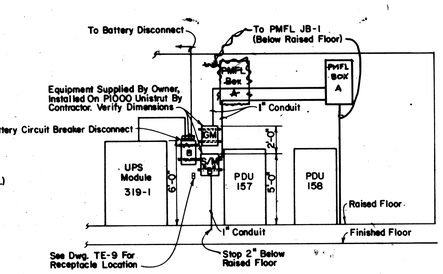
REVISIONS		
LTR	DESCRIPTION	DATE
1	A. Change 6'-0" To 6'-8" And Added "See Dwg. TM-23"	3/6/85
	B. Changed 4'-6" To 4'-10"	3/6/85
	C-D. Revised Wireway And Filter Panel	3/26/85
	E. Added Elevation	3/26/85
	F. Added Note To Dry Cooler	3/26/85
2	A. Relocated Unit Heater In Room T101	5/3/85
3	A. Added Filter Conductors Schedule ECNR-11	8/29/85
	B. Deleted The Two 400A Disconnects And Note Referring To Them. ECNR-26	4/9/86
	C-D. Added Elevation 2 In Plan And Details, Showing Installation Of IGM And Site Master "B" Inside C & M Room. ECNR-27.	5/27/86
	E-F. Modified Plan And Elevation 1 To Show Installation Of IGMs And Related Conduits. ECNR-27.	5/27/86
	"AS-BUILT" REVISIONS	4/21/87



POWER PLAN LEFT
Scale: 1/4" = 1'-0"



E ELEVATION 1 / TE-11
Scale: 1/4" = 1'-0"



5A ELEVATION 2 / TE-11
Scale: 1/4" = 1'-0"

1/4" = 1'-0" 2 0 2 4 6 8 10 FT.

KEY PLAN

AS BUILT
Made by: Bsm
Checked by: SWB
Date: 4/21/87

REVISION- 3

IN CHARGE OF: J.J. McMorrow, P.E.
MADE BY: D. Villeneuve
CHECKED BY: K.D. Gillette Jr., T. Klubiewicz

CONT. NO.	F19628-82-C-0114
ORIG. DATE OF DRAWING	1 NOV. '83
DRAWN	Douglas J. Villeneuve
ENGR	James McMahon
CHECKED	Kimball D. Gillette Jr.
REISSUED	22 FEB. '85

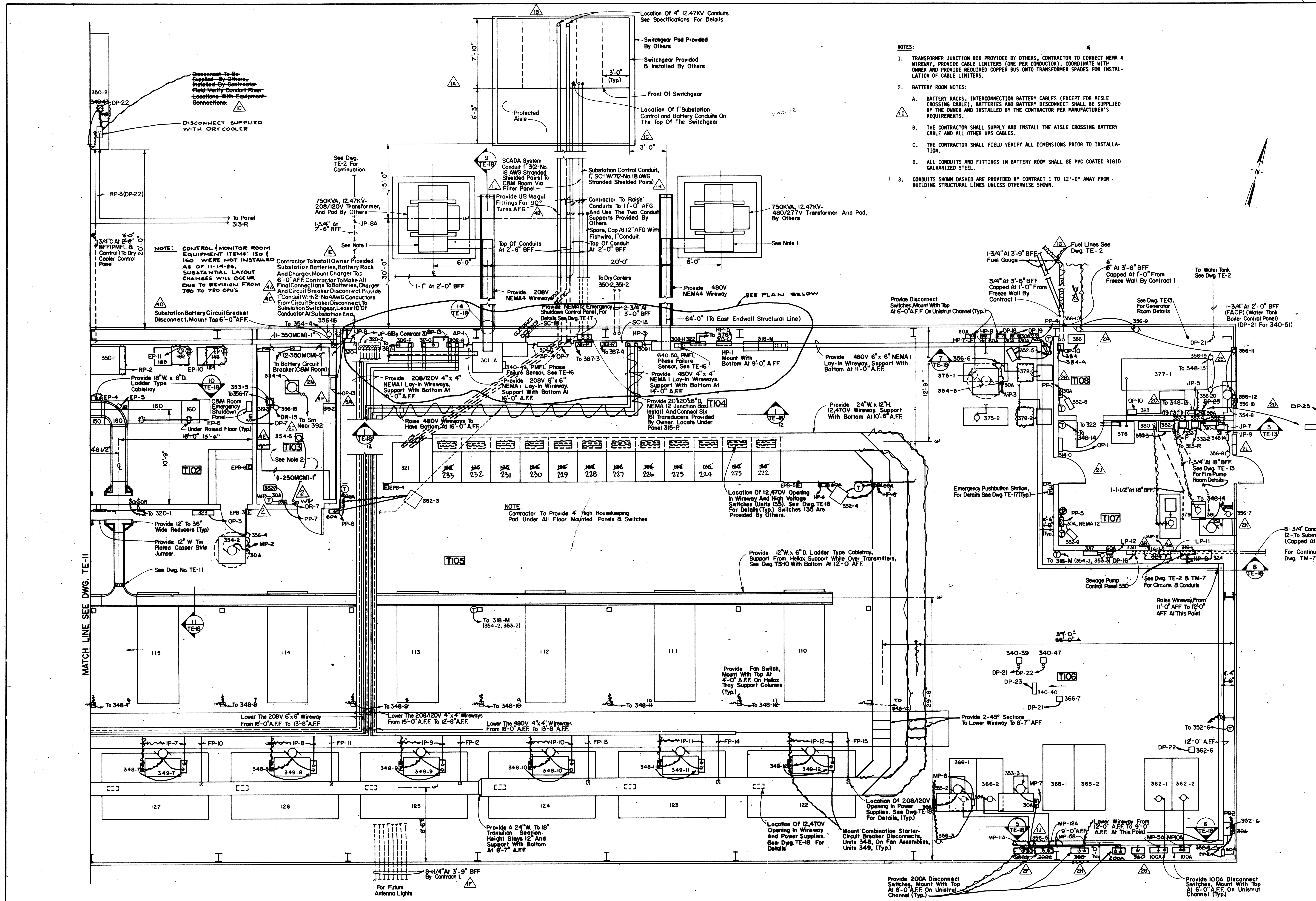
GENERAL ELECTRIC
ESD SYRACUSE, N.Y.
AN/FPS-118
SECTOR 3 TRANSMIT FACILITY
CONTRACT 2
POWER PLAN LEFT

SIZE	CODE IDENT NO.	DRAWING NO.
E	03538	TE-11

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Ceccarinas & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE: MAY 5, 1984
SCALE: AS SHOWN
FILE NO. 458.003
SHEET NO. 25



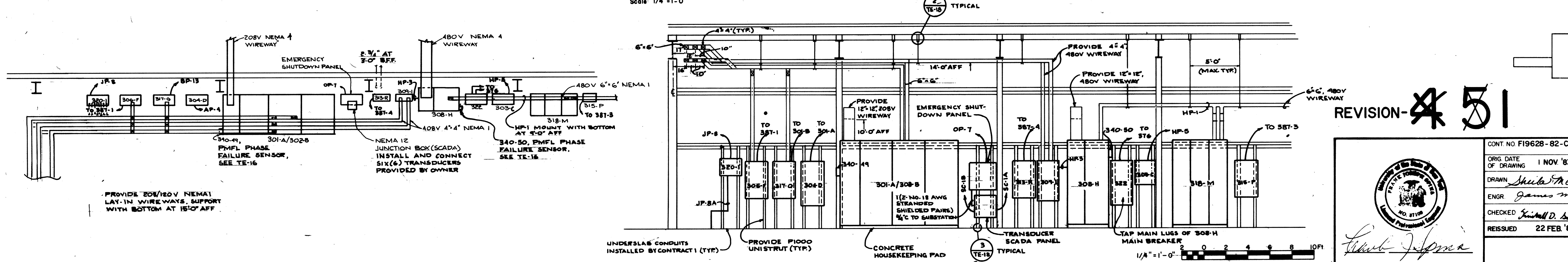
1. TRANSFORMER JUNCTION BOX PROVIDED BY OTHERS, CONTRACTOR TO CONNECT NEMA 4 WIREWAY, PROVIDE CABLE LIMITERS (ONE PER CONDUCTOR), COORDINATE WITH OWNER AND PROVIDE REQUIRED COPPER BUS ONTO TRANSFORMER SPADES FOR INSTALLATION OF CABLE LIMITERS.
2. BATTERY ROOM NOTES:
   A. BATTERY RACKS, INTERCONNECTION BATTERY CABLES (EXCEPT FOR AISLE CROSSING CABLE), BATTERIES AND BATTERY DISCONNECT SHALL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR PER MANUFACTURER'S REQUIREMENTS.
   B. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE AISLE CROSSING BATTERY CABLE AND ALL OTHER UPS CABLES.
   C. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION.
   D. ALL CONDUITS AND FITTINGS IN BATTERY ROOM SHALL BE PVC COATED RIGID GALVANIZED STEEL.
3. CONDUITS SHOWN DASHED ARE PROVIDED BY CONTRACT 1 TO 12'-0" AWAY FROM BUILDING STRUCTURAL LINES UNLESS OTHERWISE SHOWN.

POWER PLAN RIGHT

Scale 1/4"=1'-0"

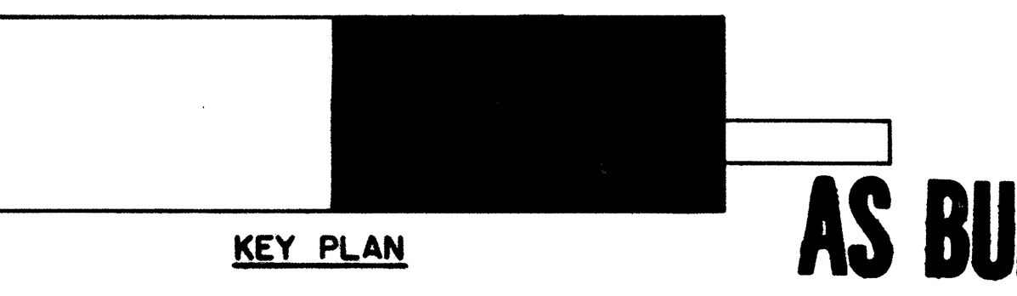
REVISIONS

LTR	DESCRIPTION	DATE
1	A-B. Deleted Dims. 16'-0" And 14'-6" From Substation	3/28/85
	C. Changed Dim. 4'-0" To 3'-0" On Substation	3/28/85
	D. Added Note To Dry Cooler	3/28/85
	E. Changed Conduit To Substation Battery From 3/4" To 1"	3/28/85
	F. Changed BFF Elevation Of Ant. Lighting Conduit From 3'-8" To 3'-9"	3/28/85
	G. Revised Fuel Line Conduits	3/28/85
	H. Changed BFF Elevation Of Heat Rejector Conduits From 2'-0" To 2'-6" And Added Note	3/28/85
	I. Revised Note 1	3/28/85
	J. Revised 200A Disconnent Switches And Wireway	3/28/85
	K-L. Added Transformer Wireway Supports	3/28/85
2	A. Removed Supply Fan 353-6	5/3/85
	B.-C. Relocated Starter 348-13	5/3/85
	D. Added Exhaust Fan 354-8 & Damper Motor 356-18	5/3/85
	E. Added Damper Motors 356-19 & 356-20	5/3/85
	F-G. Deleted Panel "366-3 & 362-3" In Room T106	5/9/85
	H. Added Panel "360" In Room T106	5/9/85
	I. Changed "DR-14" To "DR-15" For Unit 353-5 & Unit 356-15	5/20/85
	J. Removed Exhaust Fan 354-6	5/28/85
	K. Relocated Damper Motor 356-7	5/28/85
	L. Relocated Damper Motor 356-8 And Added Starter 348-14	5/28/85
	M. Revised Fan 354-4 And Relocated Damper Motor 356-16.	5/28/85
3	A. Relocated Unit 324 Heat Rejector Control Panel To Left Of Unit 316-L. ECNR-15	8/7/85
	B. Relocated Unit 330 Sewage Pump Control Panel To Left Of 324 New Position. ECNR-15	8/7/85
4	A. Increase Size Of Substation Battery Conductors From #12 AWG To #4 AWG And Change Length From 4' To 10' ECNR-9	8/28/85
	B. Deleted Note Begining "Provide LB Fittings" And Substitute Note Begining "Provide UB Mogul" ECNR-10	8/28/85
	C. Revised Note For Installing Substation Batteries And Accessories. ECNR-19	10/17/85
	D. Added Substation Bat.Circ.Breaker. ECNR-19	10/17/85
	E-F. Resized Battery Racks 319-2 & 3 And Relocated Battery Charger. ECNR-19	10/17/85
5	A. Changed Circuit Feeding Substation Battery ~~Charger~~ From DR-20 To OP-13. ECNR-28	8/8/86
	"AS-BUILT" REVISIONS	4/21/87
	THE FOLLOWING MARK UPS WERE PREFORMED BY G.E. CO.	
1	CHGED H.V. SWITCH GEAR ITEM NOS. 135 TO "222-233"	R.Boyer 3-7-88
2	RM. T103 ADDED 2 WP" 2 PLACES, Sm AT DOOR 4 AT (T) 352-7" PER "AS BUILT" TX-038.	R.Boyer 3-25-92



SECTION

SCALE: 1/4"=1'-0"



KEY PLAN

AS BUILT

Made by: BSM
Checked by: SWB
Date: 4/21/87

REVISION- ~~4~~ ~~5~~ 1

CONT. NO. F19628-82-C-0114		GENERAL ELECTRIC ESD SYRACUSE, N.Y.
ORIG. DATE OF DRAWING	1 NOV. '83	AN/FPS-118 SECTOR 3 TRANSMIT FACILITY CONTRACT 2
DRAWN	Sheila M. Farley	POWER PLAN RIGHT
ENGR.	James McHerron	
CHECKED	Kimball D. Gillette Jr.	
REISSUED	22 FEB. '85	
SIZE E	CODE IDENT NO. 03538	DRAWING NO. TE-12

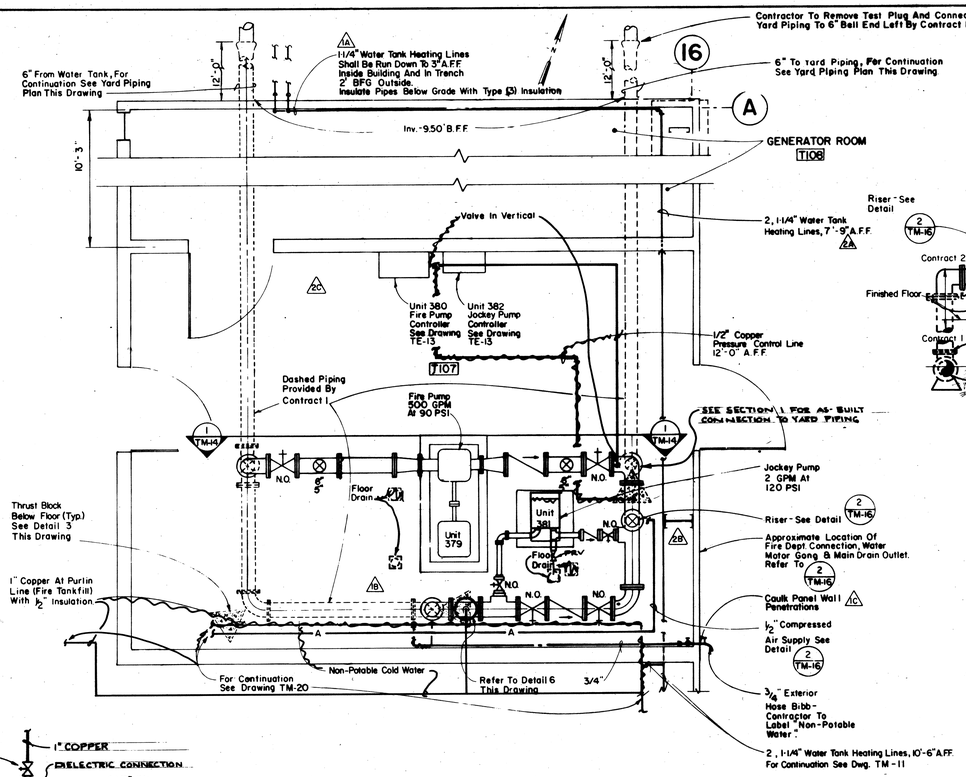
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Calocerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE: MAY 5, 1984
SCALE: AS SHOWN
FILE NO. 458.003
SHEET NO. 26

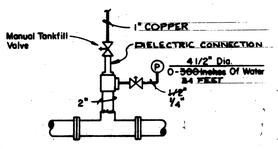
IN CHARGE OF: J.I. McHerron, P.E.
MADE BY: S.M. Farley, A. Stewart
CHECKED BY: K.D. Gillette, Jr., T.C. Klukiewicz

REVISIONS		
LTR	DESCRIPTION	DATE
1	A.-C. In Fire Pump Room Plan Revised Note For Water Tank Heating Lines, Deleted 4" Sanitary Pipe And Added Note For Caulking. D.-E. On Yard Piping Plan, Add 6" Drain With Manhole And Added Dimension	3/28/85
2	A. Relocated Heating Lines In Plan. B. Relocated Sprinkler Riser In Fire Pump Room Plan. C. Removed Unrelated Electrical Equipment From Fire Pump Room Plan.	5/6/85 5/29/85 5/29/85
	AS-BUILT REVISIONS	4/21/87
3	Removed all hosehouses	4-1-87



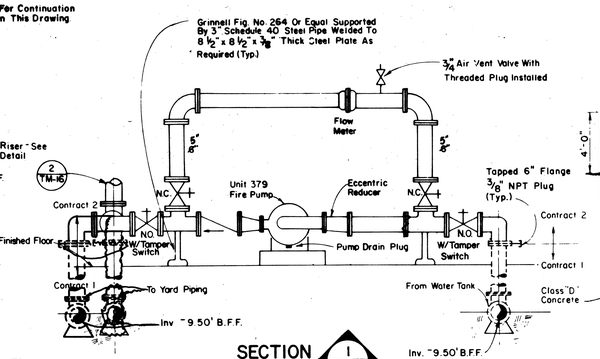
FIRE PUMP ROOM PLAN

Scale: 1/2" = 1'-0"

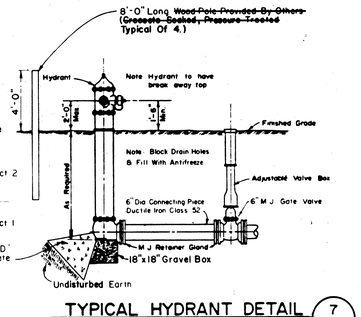


DETAIL 6 TM-14
Not To Scale

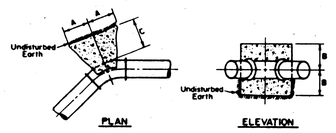
NOTES:
1. One Yard Piping Post Indicator Valve And All 6" Ductile Iron (Fire Suction And Yard Piping) Below Slab To Distance As Shown From Building Shall Be By Contract 1
2. Fire And Jockey Pump Pads By Contract 1.
3. Floor Drains By Contract 1.



SECTION 1 TM-14
Not To Scale

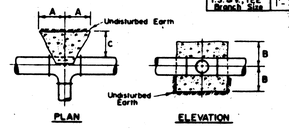


TYPICAL HYDRANT DETAIL 7 TM-14
Not To Scale



BEND

Size	6"		
Dimensions	A	B	C
BEND 90°	1'-6"	1'-6"	1'-6"
45°	1'-2"	1'-2"	1'-2"
22 1/2°	0'-9"	0'-9"	0'-9"
11 1/4°	0'-6"	0'-6"	0'-6"
T.S.&V. TEE Branch Size	1'-3"	1'-3"	1'-3"



TEE

THRUST BLOCK DETAILS 3 TM-14

Not To Scale

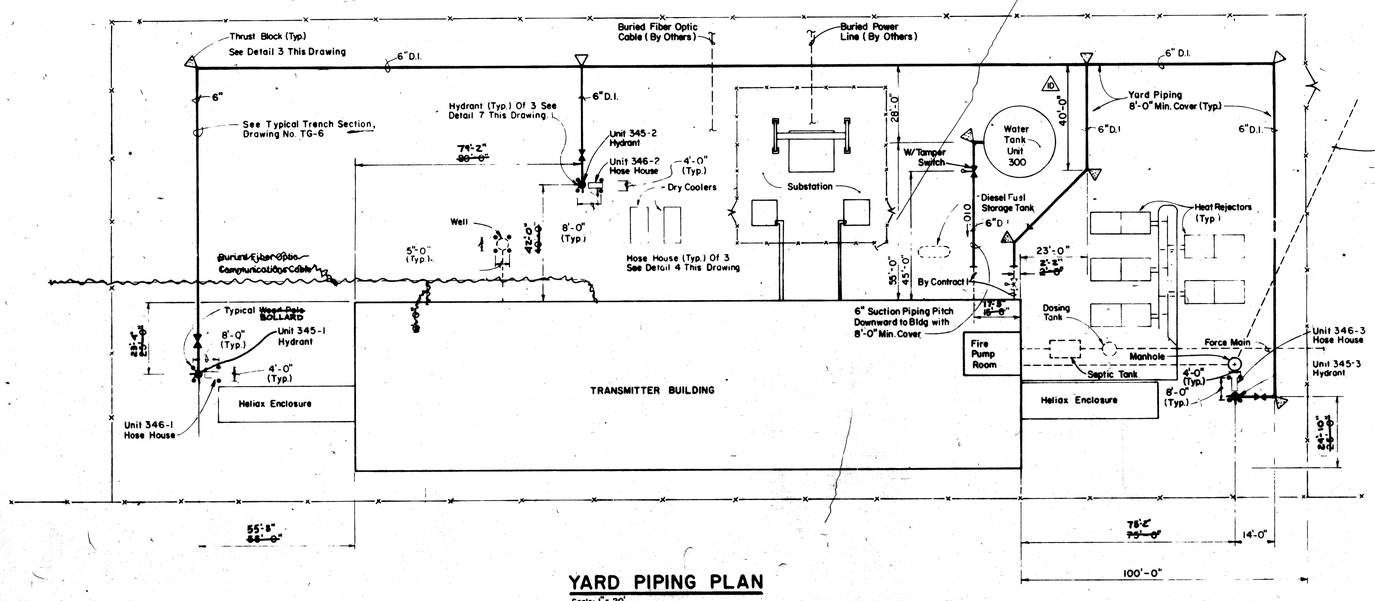
FIRE PUMP SEQUENCE OF OPERATION

FIRE PUMP

AN AUTOMATIC JOCKEY PUMP WILL BE UTILIZED TO MAINTAIN PIPING SYSTEM STATIC PRESSURE HIGHER THAN THE FIRE PUMP STARTING PRESSURE. REDUCTION OF WATER PRESSURE IN THE YARD PIPING NETWORK CAUSED BY WATERFLOW IN EXCESS OF JOCKEY PUMP CAPACITY OR ACTIVATION OF THE PRE-FIRE ALARM BY A SINGLE SMOKE DETECTOR OR ACTIVATION OF ANY MANUAL FIRE ALARM PULL STATION WILL INITIATE THE FIRE PUMP OPERATION. THIS OPERATION WILL BE AUTOMATIC WITH MANUAL SHUTDOWN CAPABILITY.

SYSTEM TESTING

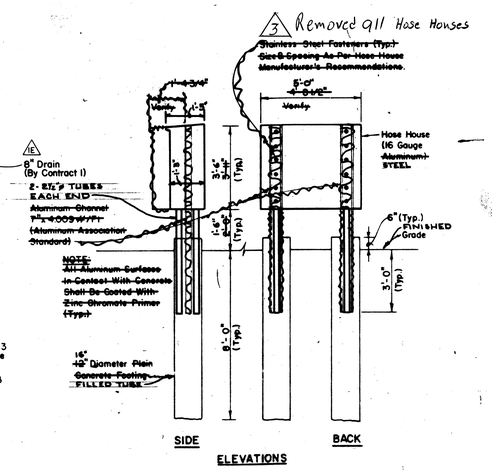
EACH SYSTEM SHALL BE SUBJECT TO A WITNESSED TEST AS DESCRIBED IN THE SPECIFICATIONS. ALL COSTS FOR TEST EQUIPMENT, MATERIALS AND CONTRACTORS' MANPOWER SHALL BE BORNE BY THE CONTRACTOR. SUCCESSFUL SYSTEM TEST SHALL QUALIFY THE COMPLETED SYSTEM.



YARD PIPING PLAN

Scale: 1" = 20'

NOTES:
1. Refer to Site Plan For Structures and other utilities.
2. All piping to be installed parallel to Transmitter Building unless otherwise shown.
3. All yard and suction piping to be cement lined, Ductile iron, Class 52, Suction piping to be installed according to specified grade to eliminate air pockets.
4. Contractor shall perform Hydrant Flow Test (See Specifications)
5. Refer To Specification For Interior Piping Material.
6. Refer To Fire Pump Room Plan Above For Contract 1 & 2 Limits.
7. Provide Air Vents At High Points And Drain Valves At Low Points Of The Water Tank Heating System.



ELEVATIONS

TYPICAL HOSE HOUSE DETAIL 4 TM-14

Not To Scale

AS BUILT
Made by: BSM
Checked by: EWB
Date: 4/21/87

REVISION 2

1/2" = 1'-0" 0 1 2 3 4 5Ft
1" = 20' 20 0 20 40Ft

IN CHARGE OF: J.J. McHarron, P.E.
MADE BY: D. Chambers, P.J. Lagnetto
CHECKED BY: J.D. DeLeo, J. McCormick, P.E.

CONT NO	F19628-82-C-0114
ORIG DATE OF DRAWING	1 NOV. '83
DRAWN	D. Chambers
ENGR	J. McHarron
CHECKED	J. D. DeLeo
REISSUED	22 FEB. '85

GENERAL ELECTRIC
ESD SYRACUSE, N.Y.

AN/FPS-118
SECTOR 3 TRANSMIT FACILITY
CONTRACT 2
YARD PIPING & FIRE PUMP ROOM PLAN & DETAILS

SIZE	CODE IDENT NO	DRAWING NO
E	03538	3 TM-14

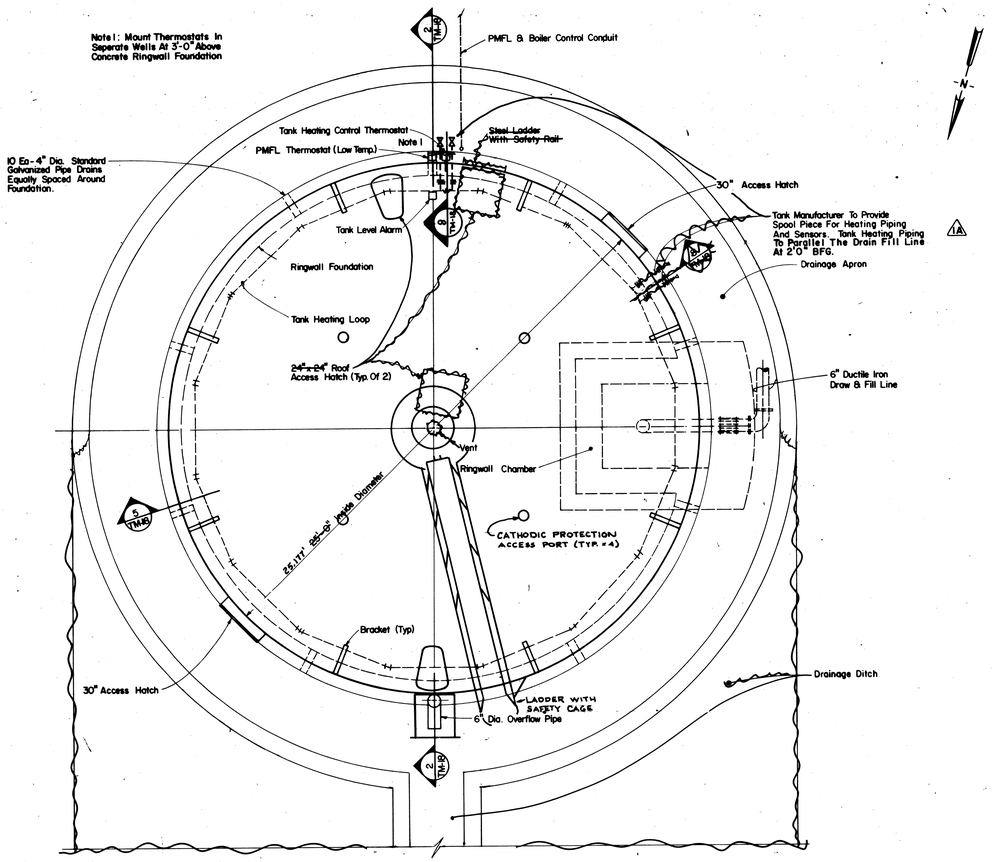
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Calocerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE: MAY 5, 1984
SCALE: AS SHOWN
FILE NO. 458.003
SHEET NO. 46

REVISIONS		
LTR	DESCRIPTION	DATE
1A	A. Revised Note Specifing Depth Of Heater Piping On Tank Plan.	3/28/85
	B. Changed #5 Bar To #6 Bar In Section 6.	3/28/85
	"AS-BUILT" REVISIONS	4/21/87

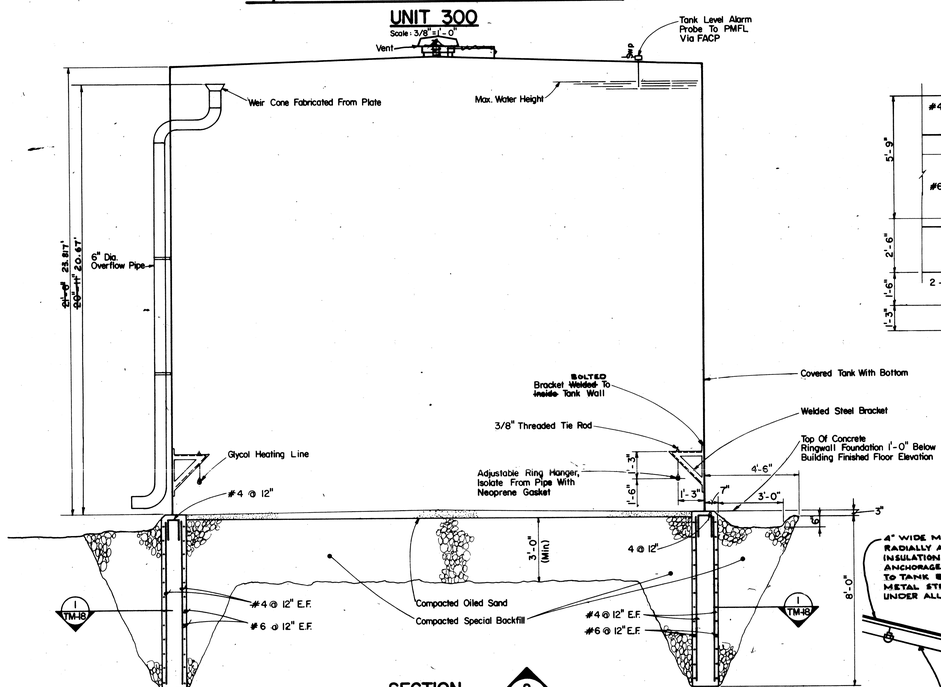
Note 1: Mount Thermostats In Separate Wells At 3'-0" Above Concrete Ringwall Foundation



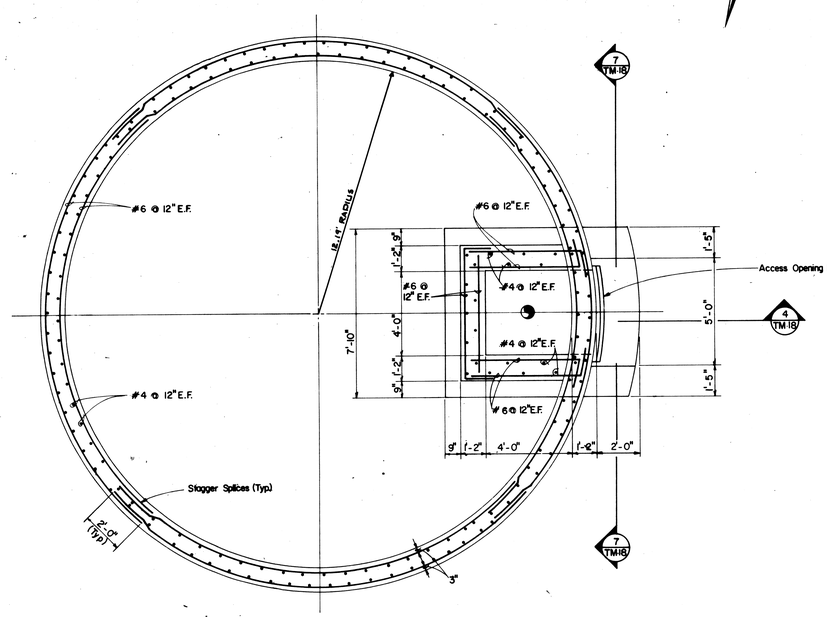
75,000 GALLON STORAGE TANK PLAN

UNIT 300

Scale: 3/8" = 1'-0"

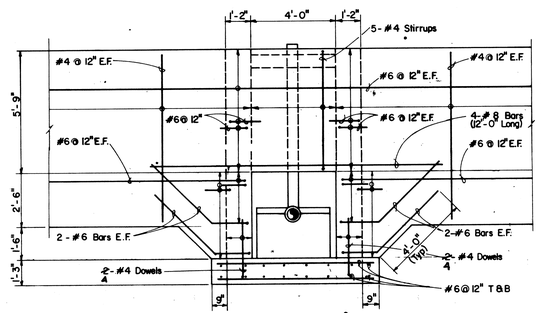


SECTION 2 (TM-18)
Scale: 3/8" = 1'-0"

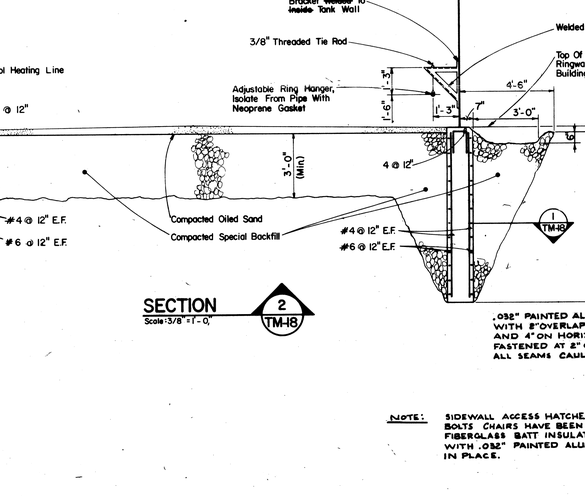


SECTION 7 (TM-18)

SECTION 1 (TM-18)
Scale: 3/8" = 1'-0"



SECTION 3 (TM-18)
Scale: 3/8" = 1'-0"

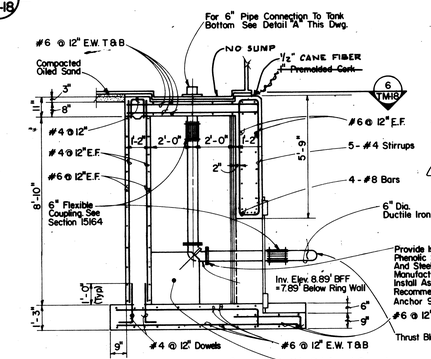


TYPICAL INSULATION DETAIL
Not To Scale

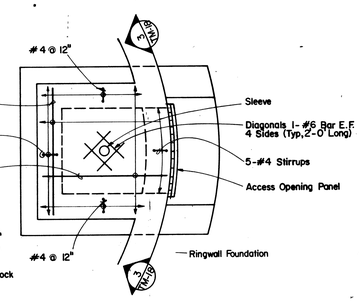
NOTE: SIDEWALL ACCESS HATCHES AND ANCHOR BOLTS CHAIRS HAVE BEEN INSULATED WITH FIBERGLASS BATT INSULATION AND COVERED WITH .032" PAINTED ALUMINUM, SCREWED IN PLACE.

TYPICAL INSULATION DETAIL

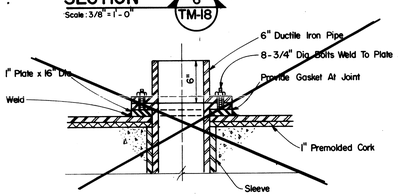
SECTION 4 (TM-18)
Scale: 3/8" = 1'-0"



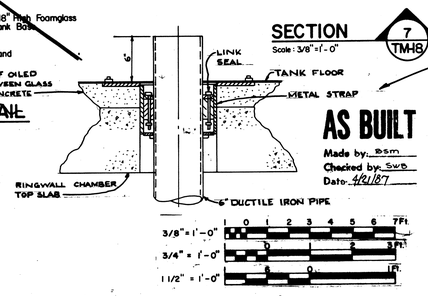
SECTION 5 (TM-18)
Scale: 3/4" = 1'-0"



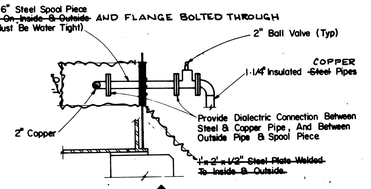
SECTION 6 (TM-18)
Scale: 3/8" = 1'-0"

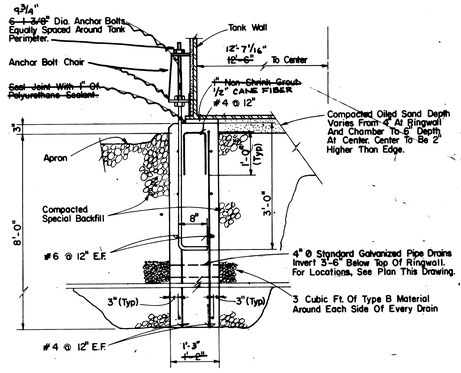


SECTION 7 (TM-18)
Scale: 3/8" = 1'-0"



SECTION 8 (TM-18)
Scale: 3/4" = 1'-0"





DETAIL "A" PIPE CONNECTION
Scale: 1-1/2" = 1'-0"

REVISION-

AS BUILT
Made by: DSM
Checked by: SWB
Date: 4/21/87

IN CHARGE OF: J.I McHerron, P.E.
MADE BY: B. Marvino
CHECKED BY: R. M. Hamlin, Jr.

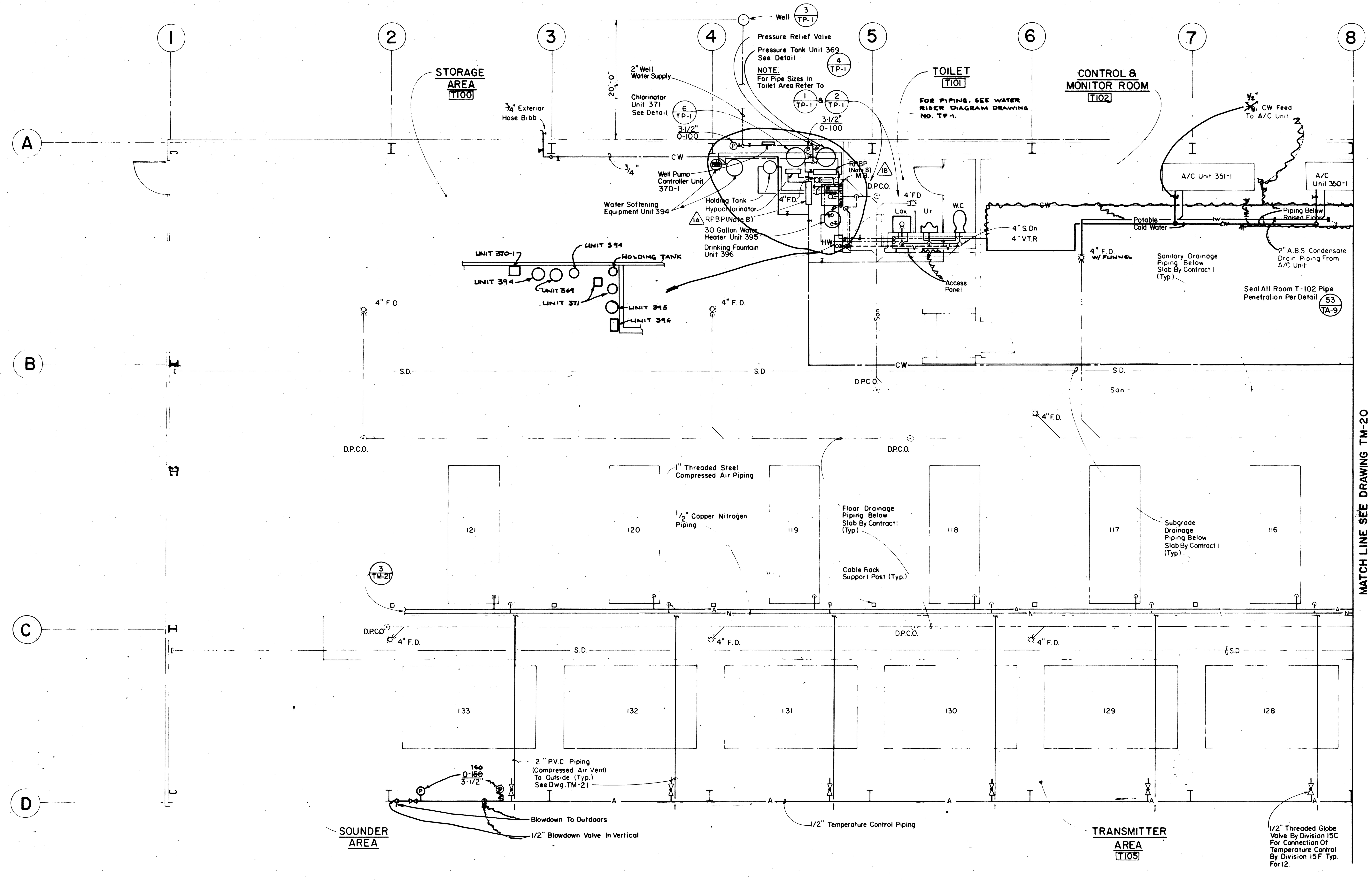
CONT. NO. F19628-82-C-0114	GENERAL ELECTRIC ESD SYRACUSE, N.Y.
ORIG. DATE OF DRAWING 8 MAR. '84	AN/FPS-118
DRAWN	SECTOR 3 TRANSMIT FACILITY CONTRACT 2
ENGR.	WATER TANK
CHECKED	
REISSUED 22 FEB. '85	SIZE E; CODE IDENT NO. 03538; DRAWING NO. 3 TM-18

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Ceccerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE: MAY 5, 1984
SCALE: AS SHOWN
FILE NO. 458.003
SHEET NO. 50

LTR	REVISIONS DESCRIPTION	DATE
1	A-B. Added "(Note 8)" To RPBP Flags In Plan. ECNR-18	12/5/85
	C. Added General Note No. 8 ECNR-18	12/5/85
	"AS-BUILT" REVISIONS	4/21/87



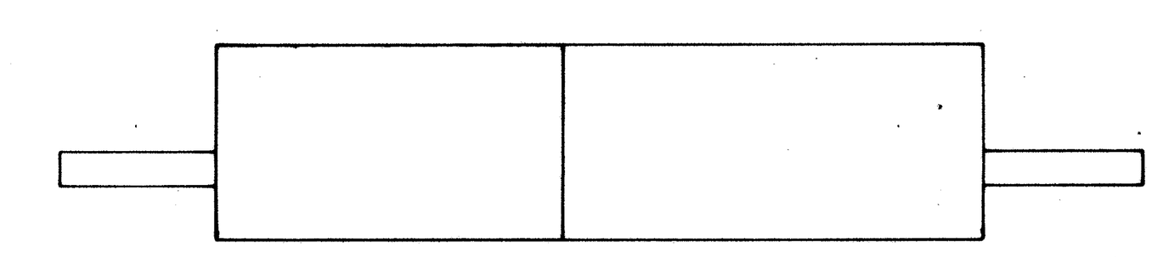
PLAN

Scale 1/4" = 1'-0"

GENERAL NOTES

1. SEE DRAWING TG-3 FOR SYMBOLS.
2. PIPE SIZES SHOWN ARE NOMINAL PIPE SIZES.
3. ALL COMPRESSED AIR PIPING SHALL BE SLOPED DOWN TO DRAIN VALVES TO ALLOW FOR DRAINAGE.
4. PITCH 2" CONDENSATE DRAIN PIPING TO FLOOR DRAIN.
5. REFER TO DRAWING TM-21 FOR TRANSMITTER NITROGEN MANIFOLD DETAIL.
6. REFER ALSO TO DRAWING TM-10 FOR TEMPERATURE CONTROL PIPING.
7. ALL PIPING BELOW SLAB, FLOOR DRAINS AND DECK PLATE CLEANOUTS BY CONTRACT 1.
8. (1C) INSTALL SPRING-LOADED, SOFT-SEATED CHECK VALVE IMMEDIATELY AHEAD OF EACH ~~REDUCE~~ REDUCED PRESSURE BACK FLOW PREVENTER ON THE WATER SYSTEM. SEE SPEC. 15400

AS BUILT
Made by: BSM
Checked by: SWB
Date: 4/21/87



KEY PLAN

REVISION-⊗1

CONT NO F19628-82-C-0114
ORIG DATE OF DRAWING 1 NOV. 83
DRAWN David Chambers
ENGR James McHenon
CHECKED John D. DeLeo
REISSUED 22 FEB. '85

GENERAL ELECTRIC
ESD SYRACUSE, N.Y.

AN/FPS-118
SECTOR 3 TRANSMIT FACILITY
CONTRACT 2

COMPRESSED AIR, NITROGEN & PLUMBING PLAN

SIZE	CODE IDENT NO	DRAWING NO
E	03538	3 TM-19

Calocerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE MAY 5, 1984
SCALE AS SHOWN
FILE NO 458 003
SHEET NO 51

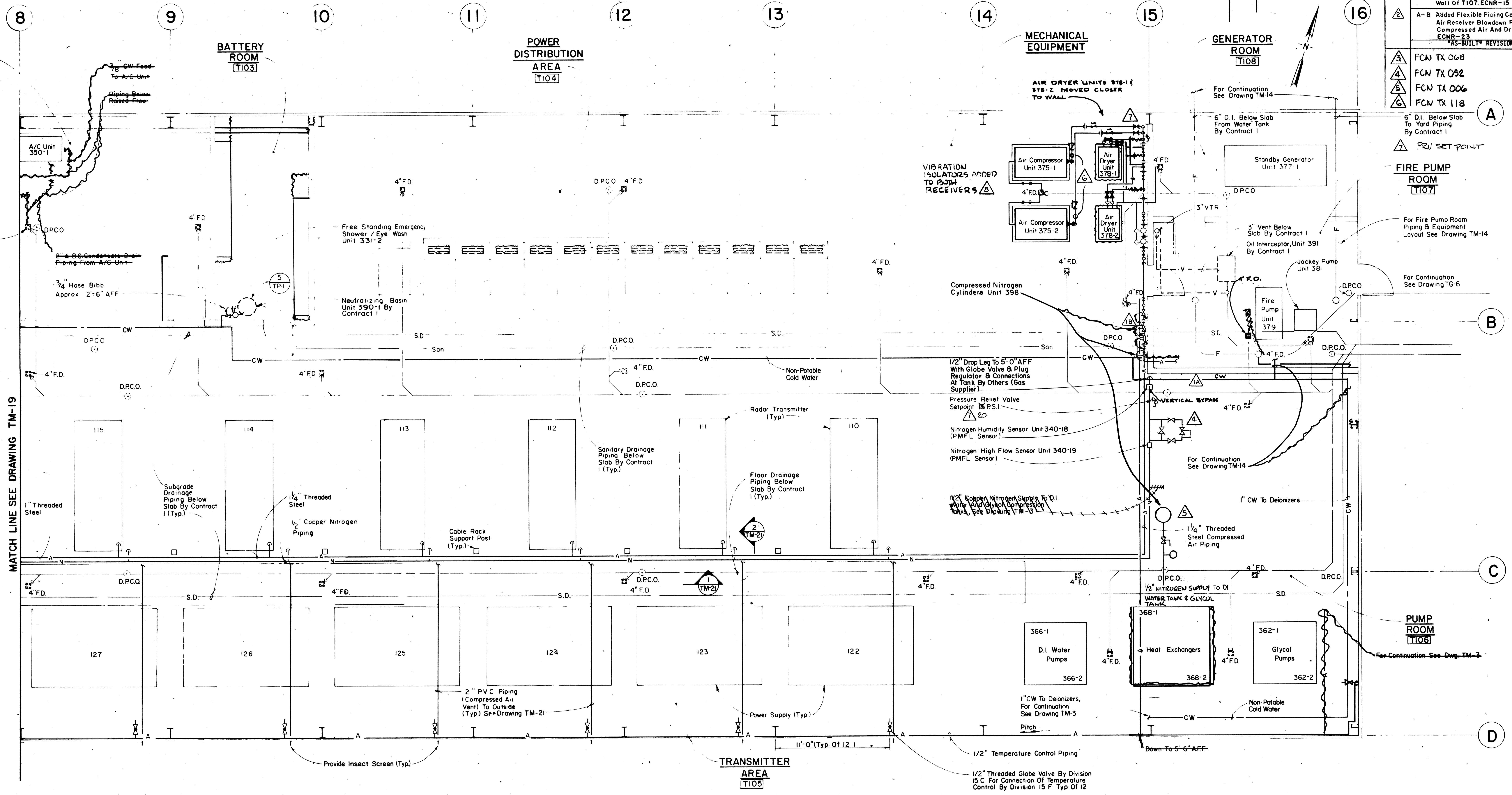
IN CHARGE OF: J. I. McHerron, P.E.
MADE BY: B. Dickens, D. Chambers.
CHECKED BY: J. D. DeLeo

1/4" = 1'-0" 2 0 2 4 6 8 10Ft

	FCN TX 121	4/23/90
8	FCN TX 122	4/23/90

REVISIONS

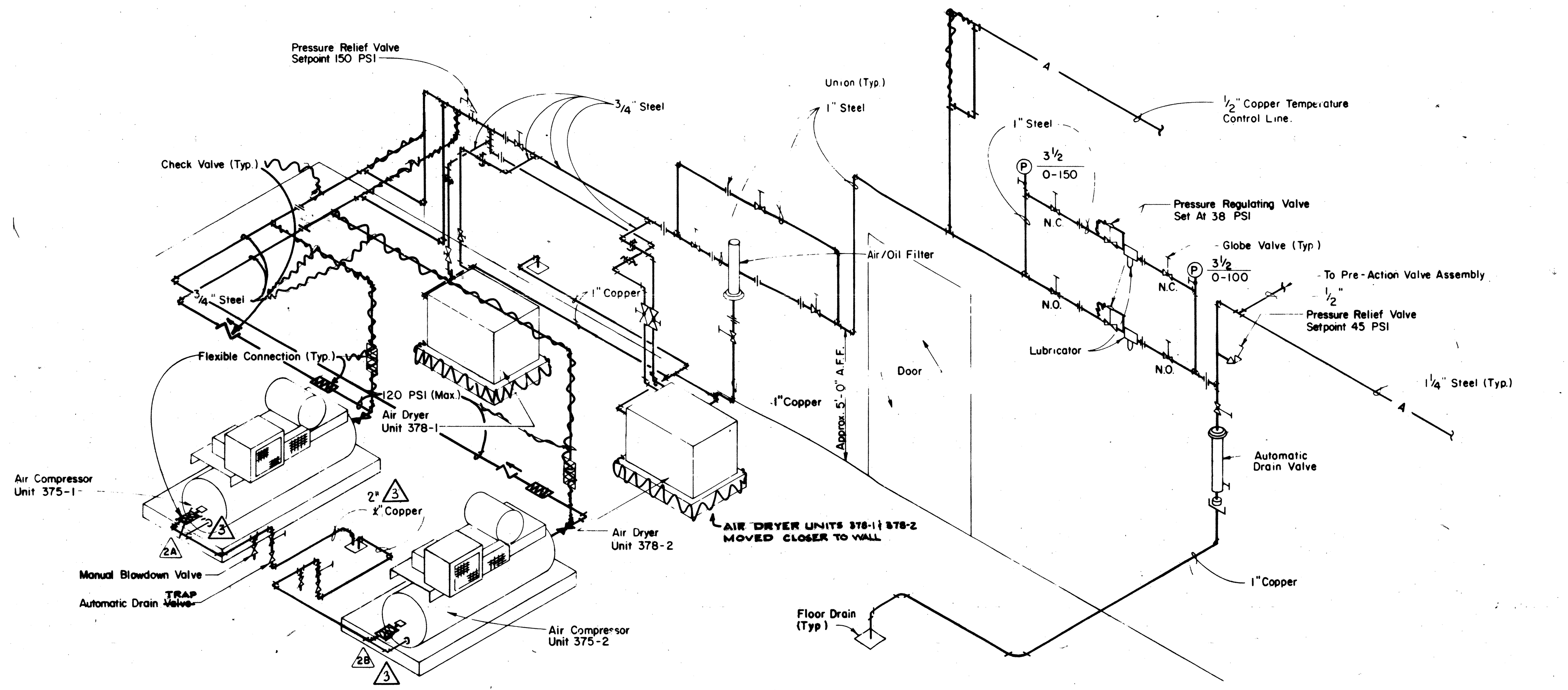
LTR	DESCRIPTION	DATE
1	A-B Relocated Nitrogen Cylinders From South Exterior Of Room T107 To West Exterior Wall Of T107. ECNR-15	8/8/85
2	A-B Added Flexible Piping Connection In The Air Receiver Blowdown Piping In The Compressed Air And Dryer Details. ECNR-23	1/22/86
	"AS-BUILT" REVISIONS	4/21/87
3	FCN TX 068	4/12/88
4	FCN TX 052	4/23/90
5	FCN TX 006	4/23/90
6	FCN TX 118	4/23/90
7	PRV SET POINT	9/8/94



8
9
10
11
12
13
14
15
16
A
B
C
D
CONTROL & MONITOR ROOM T102
BATTERY ROOM T103
POWER DISTRIBUTION AREA T104
MECHANICAL EQUIPMENT
GENERATOR ROOM T108
FIRE PUMP ROOM T107
PUMP ROOM T106
TRANSMITTER AREA T105
MATCH LINE SEE DRAWING TM-19
N
3/8" CW Feed To A/C Unit
Piping Below Raised Floor
A/C Unit 350-1
4" F.D. W/Funnel
D.P.C.O
2" A.B.S Condensate Drain Piping From A/C Unit
3/4" Hose Bibb Approx. 2'-6" AFF
Free Standing Emergency Shower / Eye Wash Unit 331-2
Neutralizing Basin Unit 390-1 By Contract 1
AIR DRYER UNITS 378-1 & 378-2 MOVED CLOSER TO WALL
VIBRATION ISOLATORS ADDED TO BOTH RECEIVERS
Air Compressor Unit 375-1
Air Compressor Unit 375-2
Air Dryer Unit 378-1
Air Dryer Unit 378-2
For Continuation See Drawing TM-14
6" D.I. Below Slab From Water Tank By Contract 1
6" D.I. Below Slab To Yard Piping By Contract 1
Standby Generator Unit 377-1
3" VTR
3" Vent Below Slab By Contract 1
Oil Interceptor, Unit 391 By Contract 1
Jockey Pump Unit 381
Fire Pump Unit 379
For Fire Pump Room Piping & Equipment Layout See Drawing TM-14
For Continuation See Drawing TG-6
Compressed Nitrogen Cylinders Unit 398
1/2" Drop Leg To 5'-0" AFF With Globe Valve & Plug. Regulator & Connections At Tank By Others (Gas Supplier)
Pressure Relief Valve Setpoint 15 P.S.I. 20
VERTICAL BYPASS
Nitrogen Humidity Sensor Unit 340-18 (PMFL Sensor)
Nitrogen High Flow Sensor Unit 340-19 (PMFL Sensor)
For Continuation See Drawing TM-14
1/2" Copper Nitrogen Supply To D.I. Water And Glycol Compression Tanks, See Drawing TM-3
1" CW To Deionizers
1 1/4" Threaded Steel Compressed Air Piping
1/2" NITROGEN SUPPLY TO DI WATER TANK & GLYCOL TANK
366-1 D.I. Water Pumps 366-2
368-1 Heat Exchangers 368-2
362-1 Glycol Pumps 362-2
For Continuation See Dwg. TM-3
1" CW To Deionizers, For Continuation See Drawing TM-3
Non-Potable Cold Water
Pitch
Down To 5'-6" A.F.F.
Radar Transmitter (Typ)
Sanitary Drainage Piping Below Slab By Contract 1 (Typ.)
Floor Drainage Piping Below Slab By Contract 1 (Typ.)
Subgrade Drainage Piping Below Slab By Contract 1 (Typ.)
1" Threaded Steel
1 1/4" Threaded Steel
1/2" Copper Nitrogen Piping
Cable Rack Support Post (Typ.)
2" P.V.C Piping (Compressed Air Vent) To Outside (Typ.) See Drawing TM-21
Power Supply (Typ.)
Provide Insect Screen (Typ.)
11'-0" (Typ. Of 12)
1/2" Temperature Control Piping
1/2" Threaded Globe Valve By Division 15 C For Connection Of Temperature Control By Division 15 F Typ. Of 12
115
114
113
112
111
110
127
126
125
124
123
122
CW
S.D.
San
4" F.D.
D.P.C.O.

PLAN

Scale 1/4" = 1'-0"



Pressure Relief Valve Setpoint 150 PSI
3/4" Steel
Check Valve (Typ.)
3/4" Steel
Flexible Connection (Typ.)
120 PSI (Max.)
Air Dryer Unit 378-1
1" Copper
Air Compressor Unit 375-1
2" 1" Copper
Manual Blowdown Valve
Automatic Drain TRAP
Air Compressor Unit 375-2
Air Dryer Unit 378-2
AIR DRYER UNITS 378-1 & 378-2 MOVED CLOSER TO WALL
Union (Typ.)
1" Steel
1" Steel
Air/Oil Filter
Door
Approx. 5'-0" A.F.F.
1/2" Copper Temperature Control Line.
3 1/2 0-150
3 1/2 0-100
Pressure Regulating Valve Set At 38 PSI
Globe Valve (Typ)
To Pre-Action Valve Assembly
1/2"
Pressure Relief Valve Setpoint 45 PSI
N.C.
N.O.
Lubricator
1 1/4" Steel (Typ.)
Automatic Drain Valve
1" Copper
Floor Drain (Typ)

COMPRESSED AIR AND DRYER DETAILS

Not To Scale

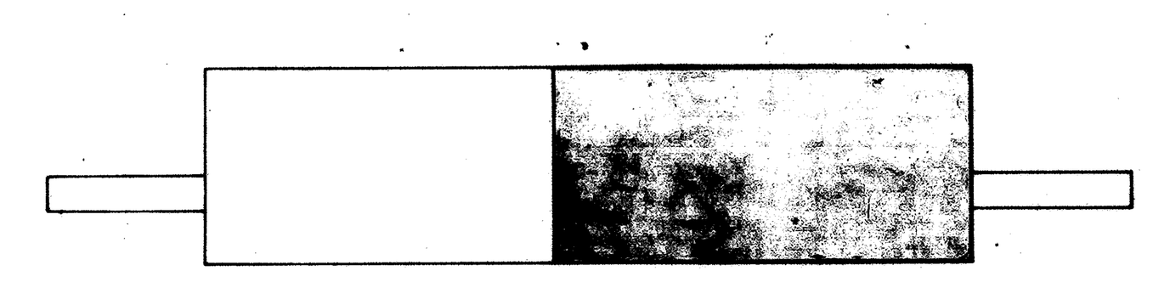
GENERAL NOTES

1. TRANSMITTERS AND FINAL CONNECTIONS TO TRANSMITTER INTERFACE BY OTHERS.
2. PIPE SIZES SHOWN ARE NOMINAL PIPE SIZES.
3. SEE DRAWING TG-3 FOR SYMBOLS.
4. ALL COMPRESSED AIR PIPING SHALL BE SLOPED TO DRAIN VALVES TO ALLOW FOR DRAINAGE.
5. PITCH 2" CONDENSATE DRAIN PIPING TO FLOOR DRAIN.
6. REFER TO DRAWING TM-21 FOR TRANSMITTER NITROGEN MANIFOLD DETAIL.
7. REFER ALSO TO DRAWING TM-9 FOR TEMPERATURE CONTROL PIPING.
8. ALL PIPING BELOW SLAB, FLOOR DRAINS, DECK PLATE CLEANOUTS, NEUTRALIZING BASIN, OIL INTERCEPTOR, AIR COMPRESSOR AND AIR DRYER PADS BY CONTRACT 1.
9. UNITS 375-1, 375-2, 378-1, 378-2 ARE SUPPLIED BY OWNER, INSTALLED BY THE CONTRACTOR.

1/4" = 1'-0" 2 0 2 4 6 8 10Ft

AS BUILT

Made by: Bsm
Checked by: SWB
Date: 4/21/87



KEY PLAN
Scale: 1" = 60'-0"

8 REVISION- 12

CONT NO	F19628-82-C-0114	GENERAL ELECTRIC ESD SYRACUSE, N.Y.
ORIG DATE OF DRAWING	1 NOV. '83	AN/FPS-118 SECTOR 3 TRANSMIT FACILITY CONTRACT 2 COMPRESSED AIR, NITROGEN & PLUMBING PLAN
DRAWN	David Chambers	
ENGR	James McHerron	
CHECKED	John D. DeLeo	
REISSUED 22 FEB. 85		
SIZE E	CODE IDENT NO 03538	DRAWING NO. 3 TM-20
DATE: MAY 5, 1984	SCALE: AS SHOWN	FILE NO. 458.003
SHEET NO. 52		

University of the State of New York · FRANK JOSEPH SPINA · NO. 37108 · Licensed Professional Engineer

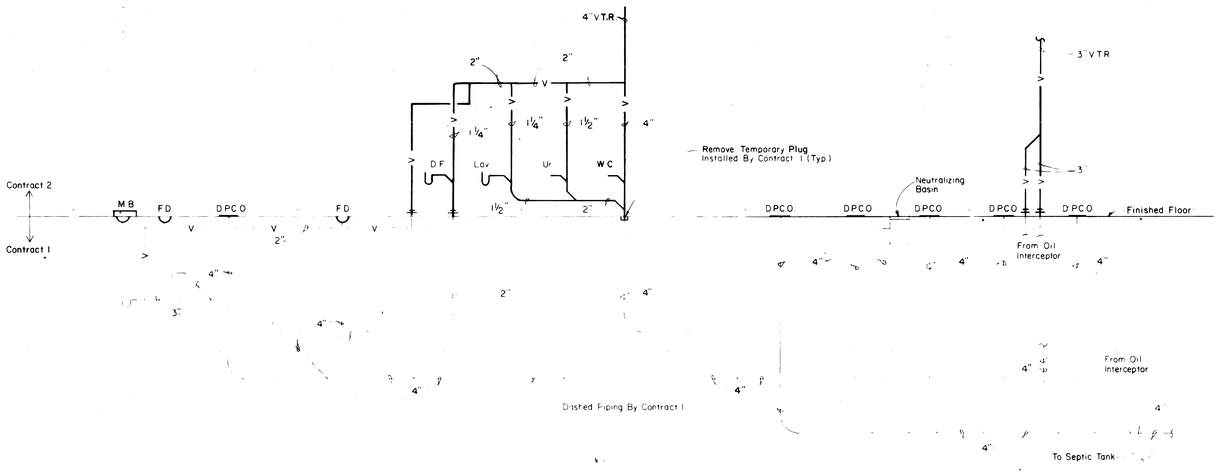
Frank J. Spina

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Calocerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

IN CHARGE OF J.I. McHerron, P.E.
MADE BY D.J. Chambers, W.E. Dickens
CHECKED BY J.D. Deleo

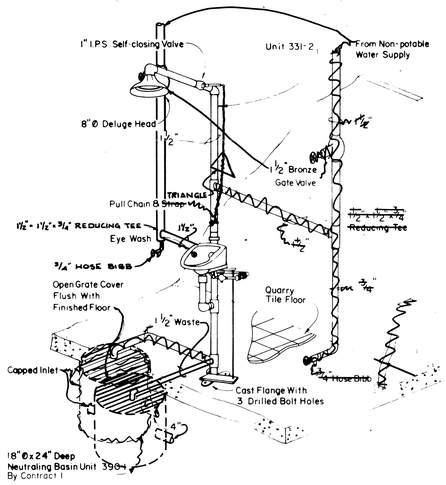
REVISIONS		
LTR	DESCRIPTION	DATE
1	A-B Clarified Well Installation Detail And Revised Note.	3/27/85
2	A. Added And Identified Check Valves On The Water Riser Diagram. ECNR-18	12/5/85
	"AS-BUILT" REVISIONS	4/21/87



TOILET AREA SANITARY RISER DIAGRAM

Not To Scale

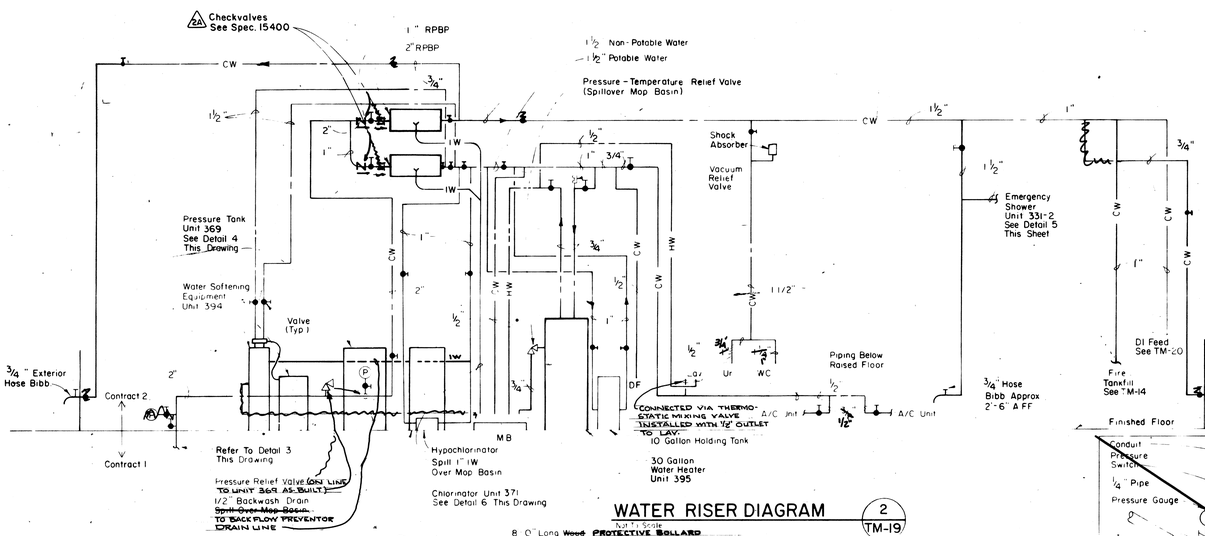
1 TM-19



EMERGENCY SHOWER DETAIL

Not To Scale

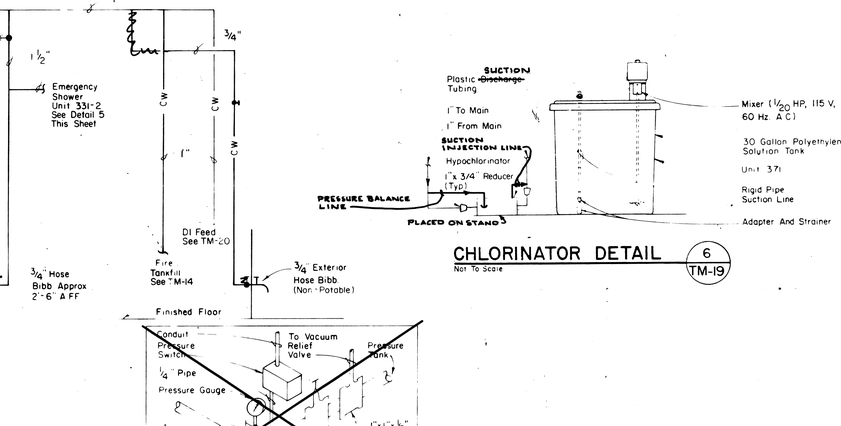
5 TM-20



WATER RISER DIAGRAM

Not To Scale

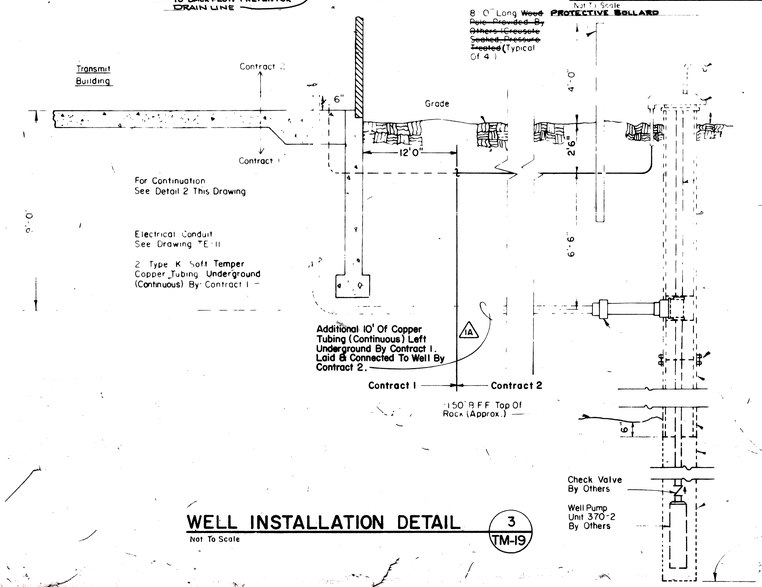
2 TM-19



CHLORINATOR DETAIL

Not To Scale

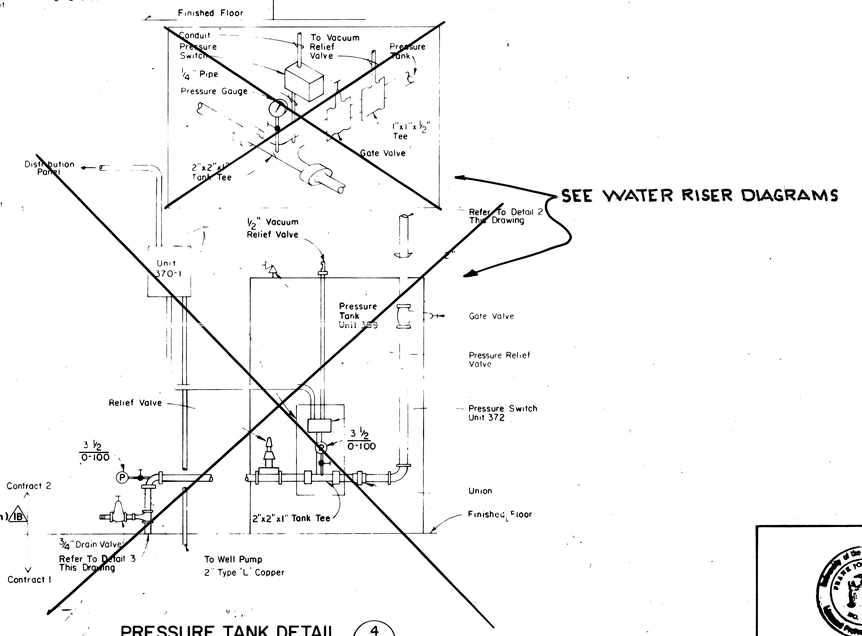
6 TM-19



WELL INSTALLATION DETAIL

Not To Scale

3 TM-19



PRESSURE TANK DETAIL

Not To Scale

4 TM-19

AS BUILT
Made by: BSM
Checked by: SWB
Date: 4/21/87

REVISION- *2

IN CHARGE OF: J.J. McMerron, P.E.
MADE BY: D. Chambers
CHECKED BY: J.D. DeLeo

	CONT NO F19628-82-C-0114	GENERAL ELECTRIC ESD SYRACUSE, N.Y.
	DATE OF DRAWN 1 NOV. '83	AN/FPS-118 SECTOR 3 TRANSMIT FACILITY CONTRACT 2
	DRAWN David Chambers	PLUMBING DETAILS
	ENGR James McMahon	
	CHECKED J.D. DeLeo	
	REISSUED 22 FEB., '85	
		SIZE E / CODE IDENT NO 03538 / DRAWING NO 3 TP-1

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Calocerinos & Spina CONSULTING ENGINEERS Liverpool, New York 13088

DATE: MAY 5, 1984 | SCALE: AS SHOWN | FILE NO 468.003 | SHEET NO 55

Appendix G-5
Visual Site Inspection Forms

VISUAL SITE INSPECTION
CONDUCTED AT THE
MOSCOW, MAINE TRANSMITTER SITE

√ A grounds inspection to determine the incidence of distressed vegetation, staining of soil, or other indications of potential contamination.

√ A visual inspection of signs of dumping on the site and a determination of what may have been dumped there.

√ A visual inspection for drums, vats, tanks, or other containers, that may contain illegally disposed hazardous materials and wastes.

√ A visual inspection for transformers, substations, and power lines.

√ A visual inspection for vent pipes, fill pipes, or other indicators of underground storage tanks.

√ A visual inspection for the presence of species of threatened or endangered plants or animals.

√ A visual inspection to determine if the area is a wetland or wildlife habitat.

√ A visual inspection for indications of cultural or historical sites.

Appendix G-6
Hazardous Materials Inventory

MSDS'S JANUARY 2002					
ITEM NUMBER	PRODUCT NAME	MANUFACTERER	EMERGENCY PHONE NUMBER	VENDOR	REMARKS AND LOCATION
1	#644 EYE WASH SOLUTION	ZEE MEDICAL INC	1-800-424-9300	ZEE MEDICAL INC	INACTIVE
2	24PK LEMON DISNF	LEMON DISINF	1-800-232-4828	STATWIDE DIST.	INACTIVE
3	ANDEROL 750	ANDEROL	201-763-7173	TRASK DECROW	INACTIVE
4	ANTIFREEZE	MONWEALTH CHEM.	1-617-851-2211	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
5	ANTISEIZE	LOCTITE CORP.	860-571-5100	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
6	BATTERY ACID	EASTPENN MAN. CO.INC.	1-215-682-6361	JACQUES DIST. BINGHAM	SEC 1,2,3 BUILDINGS
7	BERYLLIUM METAL/POWDER	CERAC INC	414-289-9800		RESISTORS IN TX HVPS'S
8	BLEACH	AUSTIN	800-424-9300	JAMES AUSTIN CO.	JANITORS CAB SEC 1 2 & 3
9	BLEACH	ELITE	800-424-9300	CMC & MAINTENANCE	INACTIVE
10	BRAKE FLUID	UNI-GARD CORP.	1-617-851-2211	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
11	C-5 REFRIGERATION OIL	NU-CALGON WHOLESALERS, INC.	1-800-424-9300	NU-CALGON WHOLESALERS, INC	FLAMEABLE STORAGE CABINET
12	CHAMPION CREAM CLEANER	STATE CHEMICAL	1-216-861-7114	STATE CHEM.CO.	JANITORS CAB SEC 1 2 & 3
13	COMET	PROCTER AND GAMBLE	1-513-983-1100	GRAINGER	JANITORS CAB SEC 1 2 & 3
14	CORROSION PREVENTIVE COM	CORROSION PREVENTIVE COM	314-522-3141 800-424-9300	LHB INDUSTRIES	INACTIVE
15	CUMMINS BLUE OIL	DRYDEN OIL CO	301-574-5000		INACTIVE
16	DIESEL FUEL	GE/MSDS	212-883-4242	GAS STATIONS	GARAGE 500 GAL TANK KUBOTA & FORD
17	DOWFROST HEAT TRANS. FLUID	VAN WATERS INC	206-889-3400	NORRIS PEBBLE CO.	SEC 1,2,3 BUILDINGS
18	DOWFROST INHIBITED PROPY. GLYCOL	VAN WATERS INC	206-889-3400	NORRIS PEBBLE CO.	SEC 1,2,3 BUILDINGS
19	DOWTHERM SR-1 HEAT TRANS. FLUID	VAN WATERS INC	206-889-3400	NORRIS PEBBLE CO.	SEC 1,2,3 BUILDINGS

20	DRANO	THE BRACKETT CO	513-632-1500		JANITORS CAB SEC 1 2 & 3
21	DUST MOP TREATMENT	ALL-STAR	1-770-968-7281	UNISOURCE WORLDWIDE INC.	JANITORS CAB SEC 1 2 & 3
22	E-Z MINERAL SPIRITS	E.E. ZIMMERMAN CO.	1-800-424-9300		INACTIVE
23	ETHYLENE GLYCOL		518-385-2577		
24	EXPO CLEANER	SANFORD CORP.	1-800-228-5635		INACTIVE
25	FORMULA 122 POLY-MIRO	STATE CHEMICAL	1-216-861-7114	STATE BANGOR,ME	JANITORS CAB SEC 1 2 & 3
26	FREON 12	DUPONT	1-800-441-3637		GARAGE
27	G-O-E-S ALL PURPOSE CLEANER	FRANKLIN CLEANING TECH.	800-424-9300	CMC & MAINT.	SEC 1,2,3 BUILDINGS
28	GASOLINE	GE/MSDS	212-883-4242	GAS STATIONS	FLAMEABLE STORAGE CABINET
29	GO-JO ALL PURPOSE LOTION SOAP	GO-JO INDUSTRIES AKON, OHIO	1-800-321 9647 EXT 8242		INACTIVE
30	HYDRALIC OIL	MONSON CHEM.	1-508-534-1425	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
31	HYVAC PUMP OIL	HYVAC PRODUCTS	215-278-0355		FLAMEABLE STORAGE CABINET
32	ISOPROPLY ALCOHOL	CSD INC.	1-409-756-1065	DSCR-VBC/THIS	FLAMEABLE STORAGE CABINET
33	JET-PLEX-EP	JET-LUBE INC	713-674-7617		FLAMEABLE STORAGE CABINET
34	LOW ACID D/T BOWL CLEANER	UNISOURCE WORLDWIDE INC.	1-800-535-5053	UNISOURCE WORLDWIDE INC.	INACTIVE
35	LUBRIPLATE	FISKE BROTHERS REFINING CO	1-800-255-3924		FLAMEABLE STORAGE CABINET
36	MACHINERY GRAY SPRAY PAINT	SHERWIN WILLIAMS	216-566-2917	SHERWIN WILLIAMS	FLAMEABLE STORAGE CABINET
37	MARTIN SENOUR PAINT	MARTIN SENOUR CO.	216-566-2917	BINGHAM HARDWARE	FLAMEABLE STORAGE CABINET
38	MOBIL DTE OIL LIGHT	MOBIL BUS. RESOURCES CORP.	1-800-424-9300	MOBIL OIL CORP.	FLAMEABLE STORAGE CABINET
39	MOGUL WS-145	MOGUL	216-835-7233		FLAMEABLE STORAGE CABINET
40	NEAUTRABRITE	SPECTROWAX CORP.	617-254-2800		JANITORS CAB SEC 1 2 & 3

41	NITROGEN	UNION CARBIDE	304-744-3487	MAINE OXY	SEC 1,2,3 BUILDINGS
42	NO-OX-ID "A"	SANCHEM INC	312-733-6100		FLAMEABLE STORAGE CABINET
43	PARA BLOCK DEODAR. BLOCK	UNISOURCE WORLDWIDE INC.	1-800-535-5053	STATE BANGOR,ME	JANITORS CAB SEC 1 2 & 3
44	PELADOW CALCIUM CLORIDE	DOW CHEMICAL CO.	517-636-4400		INACTIVE
45	PINK LUX	LEVER INDUSTRIAL	800-228-5635 EXT.072	CMC & MAINT.	JANITOR CAB SEC 1
46	PROPANE	COOPER HAND TOOLS	1-800-424-9300	BINGHAM HARDWARE	LOGISTICS
47	PROPYLENE GLYCOL	J.T. BAKER	1-800-424-8802		
48	RED GAGE OIL	DWYER INSTRAMENTS INC	219-879-8000		FLAMEABLE STORAGE CABINET
49	RENUZIT AIR FRESHNER	THE DIAL CORP.	1-800-991-3000	THE DIAL CORP.	INACTIVE
50	REXTHANE	SHERWIN WILLIAMS	216-566-2917	SHERWIN WILLIAMS	FLAMEABLE STORAGE CABINET
51	SIMPLE GREEN	RESEARCH & DEV. DIVISION	1-800-228-0709	GRAINGER	JANITORS CAB SEC 1 2 & 3
52	SMOKE DETECTOR TESTER	AEROSOL SERVICES CO	1-818-968-8531		FLAMEABLE STORAGE CABINET
53	STAINLESS STEEL CLEANER	GRAINGER BY SPECIALTY DIVISION	216-292-7400	GRAINGER	INACTIVE
54	STARPLEX 2 GREASE	TEXACO	1-914-831-3400	TEXACO LUBRICANTS CO.	FLAMEABLE STORAGE CABINET
55	STARTING FLUID	SCHOLLE CORP.	1-312-562-7290	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
56	STRIP FLOOR STRIPPER	STATE CHEMICAL	1-216-861-7114	STATE CHEM.CO.	
57	TRIPLE O	STATE CHEMICAL	216-861-7114	STATE CHEM.CO.	JANITORS CAB SEC 1 2 & 3
58	ULTRADEEP BASE	SHERWIN WILLIAMS	216-566-2917	SHERWIN WILLIAMS	FLAMEABLE STORAGE CABINET
59	UNIVERSAL CEMENT	BRIDGE PRODUCTS INC.,A.C.D.	1-800-424-9300	BRIDGE PRODUCTS INC., A.C.D.	INACTIVE
60	UNIVOLT N 61	EXXON CO.	1-800-424-9300		TRANSFORMER S SEC 1,2,3
61	WD-40	WD-40 CO.	1-619-275-1400	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET

62	WELDIND RODS	ALLOY RODS CORP.	1-717-637-8911	JACQUES DIST. BINGHAM	INACTIVE
63	WINDEX	THE DRACKETT PRODUCTS CO.	513-632-1500	CMC & MAINT.	JANITORS CAB SEC 1 2 & 3
64	ZRC COLD GAL. COMPOUND	ZRC PRODUCTS	617-328-6700		FLAMEABLE STORAGE CABINET
65	HEATING OIL	EXXON CO.	1-713-656-3424	SOMERSET OIL	FUEL STORAGE TANKS
66	KEROSENE	EXXON CO.	1-713-658-3424	SOMERSET OIL	FUEL STORAGE TANKS
67	FLUX, SOLDERING	KESTER	1-800-424-9300	UNK	FLAMEABLE STORAGE CABINET
68	KWIK KUT FILTER SPRAY	PRECISION AIRE, INC	813-822-4411	MCMASTER CARR	LOGISTICS
69	ARMOR ORANGE PAINT	MASTER AUTOM GROUP	1-800-255-3924	JACQUES DIST. BINGHAM	INACTIVE
70	RTV SILICONE	MASTER AUTOM GROUP	1-800-255-3924	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
71	LIQUID WRENCH SUPER PENETRANT	RADIATOR SPECIALTY CO.	1-303-623-5716	CLARKS HARDWARE	FLAMEABLE STORAGE CABINET
72	KOLOR KUT WATER FINDING PASTE	KOLOR KUT PRODUCTS CO.	1-713-926-4780	UNK	LOGISTICS
73	KOLOR KUT GASOLINE GAUGING PASTE	KOLOR KUT PRODUCTS CO.	1-713-926-4780	UNK	LOGISTICS
74	LIQUID PAPER MULTI FLUID CORR FLUID	THE GILLETTE CO.	1-800-884-4443	VIKING	SEC 1 BUILDING
75	EYESALINE CONCENTRATE	FENDALL CO.	1-847-577-7400	LAB SAFETY	SEC 1,2,3 BUILDINGS
76	VULKEM 116 SEALANT	TREMCO	1-800-424-9300	SHERIDAN	FLAMEABLE STORAGE CABINET
77	FREON 22	DUPONT	1-800-424-9300	UNK	GARAGE
78	SORBENT,SAFETY	UPRIGHT, INC	1-314-426-3336	MCMASTER CARR	SEC 1,2,3 BUILDINGS
79	SLIX IT	CROWN	1-800-255-3924	UNK	FLAMEABLE STORAGE CABINET
80	d-CON	RECKITT & COLMAN	1-800-424-9300	BINGHAM HARDWARE	SEC 1,2,3 BUILDINGS
81	GEAR LUBE	MASTER AUTOM GROUP	1-800-255-3924	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
82	3-IN-ONE OIL	WD-40 COMPANY	1-800-424-9300	CLARKS HARDWARE	FLAMEABLE STORAGE CABINET

83	SCOTCHCAST 400	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
84	TERMINATION KIT 5624	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
85	SCOTCHCAST 4	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
86	SCOTCHCAST 2104	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
87	SPLICING KIT 5504	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
88	CADWELD WELD MATERIAL	ERICO	1-440-248-0100		LOGISTICS
89	3-IN-ONE OIL	WD-40 COMPANY	1-800-424-9300	CLARKS HARDWARE	FLAMEABLE STORAGE CABINET
90	CALCIUM CLORIDE FLAKE	STANDARD TAR PRODUCTS	1-414-873-7650	CLARKS HARDWARE	GARAGE
91	E2 HAND SOAP	UNISOURCE	1-800-270-8975		JANITOR CAB SEC 1
92	PINK VELVET DISHWASH	UNISOURCE WORLDWIDE INC.	1-800-864-7687		JANITOR CAB SEC 1
93	DEXRON III	VALVOLINE	1-800-274-5263		FLAMEABLE STORAGE CABINET
94	STARPLEX 1	TEXACO	1-800-424-9300	JACQUES DIST. BINGHAM	FLAMEABLE STORAGE CABINET
95	LOCK-EASE	AGS CO.	1-800-253-0403	CLARKS HARDWARE	INACTIVE
96	5637K	3M	1-651-737-6501 1-800-364-3577		LOGISTICS
97	PARA DICHLOROBENZ ENE BLOCKS	HOSPITAL SPECIALTY CO.	1-800-424-9300		JANITORS CAB SEC 1 2 & 3
98	NEUTRAL CLEANER	UNISOURCE	1-800-535-5053	UNISOURCE	JANITORS CAB SEC 1 2 & 3
99	LIQUID CALCIUM CLORIDE	GENERAL CHEMICAL	1-800-631-8050	SHURTLEFF	ROAD
100	2 CYCLE OIL	CASTROL	1-201-633-2200	CASTROL	2 CYCLE ENGINES
101	SHEETROCK REDIMIX JOINT COMPOUND	US GYPSUM CO.	1-800-507-8899	BINGHAM HARDWARE	WORKING STOCK
102	ROTELLA	EQUILON ENTERPRISES	1-877-276-7283	JACQUES DIST. BINGHAM	MOTORS/FL. CAB.
103	DAZZLE	UNISOURCE	1-888-660-6737	UNISOURCE	JANITORS CAB SEC 1 2 & 3

104	FILTER SPRAY	SMITH	1-813-822-4411	GRAINGER	FLAMEABLE STORAGE CABINET
105	PRO MAR 200	SHERWIN WILLIAMS	1-216-566-2917	SHERWIN WILLIAMS	FLAMEABLE STORAGE CABINET
106	GARDEN TECH SEVIN GRANULES	TECH PAC, LLC	1-800-969-7200	BINGHAM HARDWARE	WORKING STOCK
107	DAWN, PRO. LINE DISH LIQUID	PROCTER AND GAMBLE	1-513-983-1100	UNISOURCE	JANITOR CAB SEC 1
108	MARTIN SENOUR PAINT, METAL PRIMER	MARTIN SENOUR CO.	216-566-2917	BINGHAM HARDWARE	FLAMEABLE STORAGE CABINET
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Appendix H
Certifications

DISCLAIMER

1. Special Terms and Conditions

This report has been prepared by Environmental Express Services, Inc. (EES) for the sole and exclusive use of Air Combat Command. This report is not intended for use or reliance by any other party. Any other person or entity obtaining, using, or relying on this report hereby acknowledges that they do so at their own risk, and that EES shall have no responsibility or liability for the consequences thereof. This report is only a record of data that could be observed by non-intrusive methods on the date on which the site inspection or records review occurred.

2. Limitations and Exceptions of Assessment

This Environmental Baseline Survey (EBS) was conducted in conformance with the scope and limitations of Air Force Instruction (AFI) 32-7066. This EBS is not intended to be a definitive investigation of all possible contamination at the subject property. The purpose and scope of this assessment are merely to determine if those surface areas visible on the day of the site investigation, along with the government databases searched, provide reason to suspect possible contamination at the site. No exploratory borings, or soil or groundwater samplings were performed at the property. Observations made during the site visit were limited by weather conditions, and obstacles on site, which may have hampered the ability to visually evaluate surface conditions at the site. Therefore, the conclusions set forth herein are made subject to such limitations.

This report is intended to be used in its entirety. Taking or using in any way excerpts from this report are not permitted. Excerpts, which are taken out-of-context, run the risk of being misinterpreted and are, therefore, not representative of the findings of this assessment. Opinions and recommendations presented in this report apply only to site conditions and features as they existed at the time of EES's site visit, and those inferred from information observed or available at that time. The opinions and recommendations presented in this report cannot be applied to conditions and features of which EES is unaware and has not had the opportunity to evaluate.

The results of this EBS are based on interviews with environmental regulatory agencies and U.S. Air Force personnel, a walkthrough of the subject property, and a review of acquired environmental regulatory agency documents, and property information obtained from Air Combat Command personnel and other sources providing information. EES has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information. All sources of information on which EES has relied in making its conclusions are identified in the appendices to the EBS report. Any information, regardless of source, not listed in the EBS has not been evaluated or relied upon by EES in the context of this report. The conclusions, therefore, represent our professional opinion based solely and exclusively on the sources of information described in the appendices of this report.

CERTIFICATION
OF THE ENVIRONMENTAL BASELINE SURVEY

All appropriate records made available were reviewed and visual site inspections of the selected property and surrounding areas were conducted following an analysis of information obtained during the records search. The information contained within the survey report is based on records made available and is correct and current as of the date of this document.

Description of Property:

The property consists of four buildings and includes Sectors 1, 2 and 3. The legal description of the property is described below:

Moscow Radar Transmitter Site, Moscow Maine

County: Somerset County

Latitude/Longitude of the center of each sector; (Based on the State of Maine coordinate system)

Sector 1 TX, E149, 000; N491, 000

Sector 2 TX, E151, 000; N487, 000

Sector 3 TX, E155, 000; N479, 000

Certified by: Gloria A. Hagge **Date:** 12 February 2007

GLORIA A. HAGGE
Project Manager
Environmental Express Services, Inc.

Approved by: **Date:**

ANTHONY A. FOTI, Colonel, USAF
Chief, Programs Division (A7Z)

PRESENCE OR ABSENCE OF HAZARDOUS SUBSTANCES

All appropriate records made available were reviewed and visual site inspections of the selected property and surrounding areas were conducted following an analysis of information obtained during the records search. Based on this review, hazardous substances have not been released on the property proposed for excessing. This information is the best available and is believed to be correct, but no guarantee as to accuracy can be provided.

Certified by: Gloria A. Hagge **Date:** 12 February 2007

GLORIA A. HAGGE
Project Manager
Environmental Express Services, Inc.

Approved by: **Date:**

ANTHONY A. FOTI, Colonel, USAF
Chief, Programs Division (A7Z)

February 2007

Certification of PCB Clearance

1. This Real Property is in compliance with 40 CFR 761 as outlined below:

   a. An inventory has been prepared and is being maintained of all PCB Real Property Installed Equipment and Real Property PCB Items according to Section 761.45.

      Yes ___ No ___ Not Applicable _X_

   b. All in-service and stored serviceable PCB and PCB-contaminated Real Property Installed Equipment and Real Property PCB Items have been inspected, repaired, and are being maintained to prevent leakage, and, therefore, can be distributed according to Section 761.30.

      Yes ___ No ___ Not Applicable _X_

   c. PCB Real Property Installed Equipment and Real Property PCB Items have been stored, decontaminated, and labeled according to Sections 761.42, 761.43, and 761.44.

      Yes ___ No ___ Not Applicable _X_

   d. There is no known PCB-contaminated soil, waste, or unserviceable equipment remaining on the existing property.

      Yes _X_ No ___ Not Applicable ___

A records search and an on-site inspection indicate that this property has not been exposed to PCB materials or equipment.

Certified by: Gloria A. Hagge **Date:** 12 February 2007

GLORIA A. HAGGE
Project Manager
Environmental Express Services, Inc.

Approved by: **Date:**

ANTHONY A. FOTI, Colonel, USAF
Chief, Programs Division (A7Z)

CERTIFICATION OF ASBESTOS CLEARANCE

N/A 1. On-site surveys have identified asbestos-containing materials. Friable asbestos will be properly removed and disposed of prior to, or in conjunction with, the disposal of the property, should it ever occur. Removal and disposal will be in accordance the Federal Regulations 29 CFR 1910.1001 and 40 CFR 61.145 through 61.151.

X 2. A records search and on-site inspection indicate that this property does not have asbestos containing materials (ACM) or equipment.

X 3. An on-site inspection revealed no friable asbestos based on current standards.

Certified by: Gloria A Hagge **Date:** 12 February 2007

GLORIA A. HAGGE
Project Manager
Environmental Express Services, Inc.

Approved by: **Date:**

ANTHONY A. FOTI, Colonel, USAF
Chief, Programs Division (A7Z)

Appendix I
Threatened and Endangered Species

Threatened and Endangered Plant Species for Somerset County[1]

Scientific Name	Common Name	Global Rank	State Rank	State Status
Chimaphila maculata	Spotted Wintergreen	G5	S2	E
Cynoglossum virginianum var. boreale	Northern Wild Comfrey	G5T4T5	S1	E
Cypripedium arietinum	Ram's-head Lady's-slipper	G3	S1	E
Galearis spectabilis	Showy Orchis	G5	S1	E
Panax quinquefolius	American Ginseng	G3G4	S2	E
Prenanthes boottii	Boott's Rattlesnake Root	G2	S1	E
Prenanthes nana	Dwarf Rattlesnake Root	G5	S1	E
Shepherdia canadensis	Canada Buffaloberry	G5	S1	E
Sorghastrum nutans	Indian Grass	G5	S1	E
Agrostis mertensii	Boreal Bentgrass	G5	S2	T
Arnica lanceolata	Hairy Arnica	G3	S2	T
Asplenium trichomanes-ramosum	Green Spleenwort	G4	S1	T
Carex capillaris	Capillary Sedge	G5	S1S2	T
Carex oronensis	Orono Sedge	G3	S3	T
Carex scirpoidea	Bulrush Sedge	G5	S2	T
Cryptogramma stelleri	Slender Cliffbrake	G5	S1	T
Cypripedium reginae	Showy Lady's-slipper	G4	S3	T
Elymus hystrix	Bottlebrush Grass	G5	S2S3	T
Hierochloe alpina	Alpine Sweet-grass	G5	S1	T
Huperzia selago	Alpine Clubmoss	G5	S1?	T
Nymphaea leibergii	Pygmy Water-lily	G5	S1	T
Potamogeton vaseyi	Vasey's Pondweed	G4	S2	T
Quercus bicolor	Swamp White Oak	G5	S1	T
Vaccinium boreale	Alpine Blueberry	G4	S2	T
Woodsia alpina	Northern Woodsia	G4	S1	T
Woodsia glabella	Smooth Woodsia	G5	S1	T
Zosterella dubia	Water Stargrass	G5	S2S3	T
Allium canadense	Wild Garlic	G5	S2	SC
Allium tricoccum	Wild Leek	G5	S3	SC
Betula pumila	Swamp Birch	G5	S2	SC
Carex bigelowii	Bigelow's Sedge	G5	S2	SC
Carex garberi	Garber's Sedge	G5	S2	SC
Carex rostrata	Blueleaf Sedge	G5	S2	SC
Carex tenuiflora	Sparse-flowered Sedge	G5	S2	SC
Clematis occidentalis var. occidentalis	Purple Clematis	G5T5	S2	SC
Dryopteris fragrans	Fragrant Cliff Wood-fern	G5	S3	SC

(Threatened and Endangered Plant Species for Somerset County continued)				
Scientific Name	**Common Name**	**Global Rank**	**State Rank**	**State Status**
Dryopteris goldiana	Goldie's Wood-fern	G4	S2	SC
Erigeron hyssopifolius	Hyssop-leaved Fleabane	G5	S2	SC
Galium kamtschaticum	Boreal Bedstraw	G5	S2	SC
Galium labradoricum	Bog Bedstraw	G5	S2?	SC
Houstonia longifolia var. longifolia	Long-leaved Bluet	G4G5TNR	S2S3	SC
Huperzia appalachiana	Appalachian Fir-clubmoss	G4G5	S2	SC
Juncus stygius ssp. americanus	Moor Rush	G5T5	S2	SC
Lonicera oblongifolia	Swamp Fly-honeysuckle	G4	S3	SC
Minuartia glabra	Smooth Sandwort	G4	S3	SC
Minuartia groenlandica	Mountain Sandwort	G5	S3	SC
Platanthera flava var. herbiola	Pale Green Orchis	G4T4Q	S2	SC
Primula mistassinica	Mistassini Primrose	G5	S3	SC
Pyrola minor	Lesser Wintergreen	G5	S2	SC
Trichophorum clintonii	Clinton's Bulrush	G4	S2	SC

[1] Information provided by Maine Natural Areas Program

Threatened and Endangered Natural Communities and Ecosystems for Somerset County[1]

Scientific Name	Common Name	Global Rank	State Rank
Acidic cliff - gorge	Acidic Cliff	GNR	S4
Alder shrub thicket	Alder Thicket	G4G5	S5
Appalachian - acadian basin swamp ecosystem	Appalachian - Acadian Basin Swamp Ecosystem	GNR	S4
Beech - birch - maple forest	Northern Hardwoods Forest	G3G5	S4
Bluebell - balsam ragwort shoreline outcrop	Rivershore Outcrop	G3	S3
Bluejoint meadow	Tall Grass Meadow	G4G5	S3
Boreal circumneutral open outcrop	Circumneutral Outcrop	GNR	S2
Bulrush bed	Bulrush Marsh	GNR	S4
Cave community	Cave Community	GNR	SU
Cedar - spruce seepage forest	Evergreen Seepage Forest	GNR	S3
Crowberry - bilberry summit bald	Mid-elevation Bald	G2G3	S3
Dwarf heath - graminoid alpine ridge	Heath Alpine Ridge	GNR	S2
Hardwood river terrace forest	Upper Floodplain Hardwood Forest	GNR	S2
Hardwood seepage forest	Hardwood Seepage Forest	GNR	S3
Hemlock forest	Hemlock Forest	G4G5	S4
Jack pine forest	Jack Pine Forest	G4G5	S1
Kettlehole bog-pond ecosystem	Kettlehole Bog-pond Ecosystem	GNR	S4
Labrador tea talus dwarf-shrubland	Cold-air Talus Slope	G3G5	S2
Leatherleaf boggy fen	Leatherleaf Bog	G5	S4
Low sedge - buckbean fen lawn	Low Sedge Fen	GNR	S3
Maple - basswood - ash forest	Enriched Northern Hardwoods Forest	GNR	S3
Mixed graminoid - shrub marsh	Grassy Shrub Marsh	GNR	S5
Northern white cedar swamp	Northern White Cedar Swamp	GNR	S4
Northern white cedar woodland fen	Open Cedar Fen	GNR	S4
Patterned fen ecosystem	Patterned Fen Ecosystem	GNR	S3
Red pine - white pine forest	Red and White Pine Forest	G3G4	S3
Red pine woodland	Red Pine Woodland	G3G5	S3
Rock outcrop ecosystem	Rock Outcrop Ecosystem	GNR	S4
Sedge - leatherleaf fen lawn	Sedge - Heath Fen	G4G5	S4
Sheep laurel dwarf shrub bog	Dwarf Shrub Bog	G5	S4
Shrubby cinquefoil - sedge circumneutral fen	Circumneutral Fen	G2G3	S2
Silver maple floodplain forest	Silver Maple Floodplain Forest	GNR	S3
Spruce - fir - broom-moss forest	Lower-elevation Spruce - Fir Forest	GNR	S4
Spruce - fir - cinnamon fern forest	Spruce - Fir Wet Flat	GNR	S4
Spruce - fir - northern hardwoods ecosystem	Spruce - Fir - Northern Hardwoods Ecosystem	GNR	S4

(Threatened and Endangered Natural Communities and Ecosystems for Somerset County continued)			
Scientific Name	**Common Name**	**Global Rank**	**State Rank**
Spruce - fir - wood-sorrel - feather-moss forest	Montane Spruce - Fir Forest	G3G5	S4
Spruce - heath barren	Black Spruce Barren	G5	S2
Spruce - larch wooded bog	Black Spruce Bog	G3G5	S4
Spruce talus woodland	Spruce Rocky Woodland	G3G5	S4
Streamshore ecosystem	Streamshore Ecosystem	GNR	S4
Sweetgale mixed shrub fen	Sweetgale Fen	G4G5	S4
Unpatterned fen ecosystem	Unpatterned Fen Ecosystem	GNR	S4
White cedar woodland	White Cedar Woodland	GNR	S2

[1] Information provided by Maine Natural Areas Program

STATE RARITY RANKS

S1 Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
S2 Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
S3 Rare in Maine (on the order of 20-100 occurrences).
S4 Apparently secure in Maine.
S5 Demonstrably secure in Maine.
SH Occurred historically in Maine, and could be rediscovered; not known to have been extirpated.
SU Possibly in peril in Maine, but status uncertain; need more information.
SX Apparently extirpated in Maine (historically occurring species for which habitat no longer exists in Maine).

Note: **State Ranks** determined by the Maine Natural Areas Program.

GLOBAL RARITY RANKS

G1 Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
G3 Globally rare (on the order of 20-100 occurrences).
G4 Apparently secure globally.
G5 Demonstrably secure globally.

Note: Global Ranks are determined by NatureServe.
T indicates subspecies rank, **Q** indicates questionable rank, **HYB** indicates hybrid species.

STATE LEGAL STATUS

Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's endangered and threatened plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.

E ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future, or federally listed as Endangered.

T THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.

PE POSSIBLY EXTIRPATED; Not known to currently exist in Maine; not field-verified (or documented) in Maine over the past 20 years.

FEDERAL STATUS

LE Listed as Endangered at the national level.

LT Listed as Threatened at the national level.

Please note that species names follow Flora of Maine: A Manual for Identification of Native and Naturalized Vascular Plants of Maine, Arthur Haines and Thomas F. Vining, 1998, V.F. Thomas Co., 219 Dead River Road, Bowdoin, ME 04287.

Where entries appear as binomials, all representatives (subspecies and varieties) of the species are rare in Maine; where names appear as trinomials, only that particular variety or subspecies is rare in Maine, not the species as a whole.

Visit our web site for more information on rare, threatened and endangered species!
http://www.state.me.us/doc/nrimc/mnap/factsheets/mnapfact.htm

Threatened and Endangered Animal Species for Somerset County[2]

Scientific Name	Common Name	Rank
Lynx canadensis	Canada Lynx	Federally Threatened
Bartramia longicauda	Upland Sandpiper	State Threatened
Chlidonias niger	Black Tern	State Endangered
Aquila chrysaetos	Golden Eagle	State Endangered
Haliaeetus leucocephalus	Bald Eagle	Federally and State Threatened
Falco peregrinus	Peregrine Falcon	State Endangered
Cistothorus platensis	Sedge Wren	State Endangered
Clemmys guttata	Spotted Turtle	State Threatened
Leptodea ochracea	Tidewater Mucket	State Threatened
Lampsilis cariosa	Yellow Lampmussell	State Threatened
Siphlonisca aerodromia	Tomah Mayfly	State Threatened
Ophiogomphus howei	Pygmy Snaketail	State Threatened

[2] Information provided by Maine Inland Fisheries and Wildlife

Appendix J
Review Comment Matrix

STATE OF MAINE CONCERNS
ADDRESSED IN PREVIOUS CORRESPONDENCE
FROM 2003 EA/EBS

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
1.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ The OTHB-E Radar was built sometime between 1982 & the date the Air Force acceptance in 1990. Is it possible that the builder also operated the system in shakedown mode & perhaps produced an operations manual? MEDEP is interested in the level of chemical usage in the day to day facility operations. For example, were solvents or cleaners applied to the antenna to maintain electrical contacts?	Response from 7 July, 2004 Letter from AF: No cleaners were applied to antenna. (Addressed in 2006 EBS: Cleaners were not used above household levels. Pg 2-10 Line 22-24)
2.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ NOAA used the OTHB-E Radar starting in 1992. Please identify when NOAA usage ceased. Also, please identify the duration of use for counter-narcotics surveillance.	Response from 7 July, 2004 Letter: Ceased in August 1997 & surveillance ended in the 1995-1996 timeframe. (2006 EBS: Pg 1-1; Line 15-19)
3.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ The text implies no hazardous waste manifests were ever filed. Please confirm. Contracts or operations manuals may provide some hint as to why the garages were equipped with hazardous waste collection points.	Response from 7 July, 2004 Letter: Records show Clean Harbors picked up haz. mat. (2006 EBS: Pg. 2-11 Line 11-14)
4.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Please describe the process followed for cooling the transmitter with propylene glycol & please identified the equipment cooled with ethylene glycol. Given the size of the storage tanks shown in the photographs, more information about the use of coolants is needed.	2006 EBS: Pg. 2-11 Lines 1-7
5.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ The "two small areas of sector one of the transmitter site" should be described in more detail.	2006 EBS: Section 2.9 Pg 2-15
6.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Section 3.4.13 correctly states that PCBs can be found in electrical transformers, however other electrical component such as ballasts & switches (& sometimes paint) may contain PCBs or other hazardous substances. The extensive list of real property & equipment identifies quite a number of switches & load centers including model numbers. Please check the specifications for the components & verify that they do not contain PCB or other hazardous substances.	Response from 7 July, 2004 Letter: All electrical equipment will be disposed of through DRMO & PCB(if applicable)containing material will be disposed of in accordance with state & federal regulations. (2006 EBS: Sec. 2.13, Pg 2-25; App. G-3 has building specs)

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
7.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Please describe whether the antenna or support towers were painted & the condition of the paint. It is inexpensive & quick to use XRF to verify that paint does not contain lead.	Response from 7 July, 2004 Letter: Have not been painted since installation. (2006 EBS: Sec. 2.15; Pg. 2-26, lines 8-10)
8.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Given the categories on Table 8.2-1, MEDEP concludes that petroleum has been released at 7 of the 9 sectors. Please describe each release & the actions taken to correct each release.	Response from 7 July, 2004 Letter: Petroleum has not been released at all these sites but is simple "Potential Env. Concerns" (2006 EBS: Pg 2-11, Sec. 2.3.2.2, Lines 18-23)
9.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ The "transmitter power substation" was not evaluated because it is not under the control of the Air Force. Please contact the local power company & arrange to inspect the area prior to transfer.	Response from 7 July, 2004 Letter: Central Maine Power has been notified the site will close in 2005-2007 timeframe. (2006 EBS: Pg 2-5, Sec. 2.1.3, Lines 11-16)
10.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ "Pic 1" shows a transformer "accessed only by the electric company". It is possible that future power requirements at the property will be significantly reduced. Please confirm ownership of the transformer & describe the arrangement with the power company.	Response from 7 July, 2004 Letter: The spare transformer is Air Force property. Power company will be told when terminating site ownership. (2006 EBS: Pg 2-5, lines 11-16)
11.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ "Pic 3 & Pic 4" show empty drums. One has a clear "Hazardous Waste" label. Please check the records for an indication that hazardous waste manifests have been recorded.	Response from 7 July, 2004 Letter: Haz Waste manifests couldn't be obtained, remaining waste/empty drums will be disposed of in accordance with regulations. (2006 EBS: Pg 2-11, Sec 2.3.2.2)
12.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ "Pic 5" shows 3 dozen nickel-cadmium batteries. Please describe procedures to maintain the batteries & the procedures followed for replacement & disposal.	Response from 7 July, 2004 Letter: Batteries are cleaned on regular schedule & replaced when required; disposal will take place in accordance with regulations. (2006 EBS: Pg 2-5, Lines 16-20)

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
13.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Please clarify the differences between the transformer shown in Pic 1 (near Sector 1, building, accessed only by the electric company) & the substantial transformer shown in Pic 8. (Sector 1 transformers)	Response from 7 July, 2004 Letter: There are 2 substations at Sec. 1, w/ 2 transformers in each substation. 1 substation is for 12470 volts the other substation next to the sec. 1 building has a transformer for 480 volts & 1 for 208 volts. Note there is a substation at each of the 3 sec. w/ 2 transformers each, 1 for 480 volts & 1 for 208 volts. (2006 EBS: Pg 2-5, Lines 11-14)
14.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Pic 10 shows substantial facilities for storage & distribution of coolant. The transmitter site supply/facilities/equipment sheet lists DI glycol pads but not tanks. Please identify the capacity of the coolant storage & distribution system & its status – has the coolant been drained? How was it disposed?	Response from 7 July, 2004 Letter: The large blue tank is 75000 gal water storage tank & the gray cabinets on legs are heat rejecters. The glycol is used to heat the water tank during winter. Glycol will be drained in accordance with regs. (2006 EBS: Pg 2-11, Lines 1-7)
15.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Pic 11 shows boxes of transformers. Please clarify further. Are the stored transformers spares? Are the stored transformers subject to the transfer? Was there a regular schedule for changing out transformers when the facility was operational?	Response from 7 July, 2004 Letter: Not all boxes are transformers, only ~20 are the rest are reactors or spare antenna parts. They were all drained in accordance w/ regs. (2006 EBS: No longer an issue. These boxes have been moved off site & are no longer there.)
16.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Pic 14 Please identify the discharge point for the limestone drain in the battery room.	Response from 7 July, 2004 Letter: The discharge point for the battery room is septic tank at sector 2 & 3. The discharge point for sector 1 flows into an underground drain. (2006 EBS: Pg 2-5, Lines 18-19)

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
17.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Pic 15 Please clarify whether the transformers are subject to the transfer & provide specifications. Even if the transformers are filled with non PCB oil, they may have only scrap value to a transferee, & MEDEP has an interest in the fate of the contents.	Response from 7 July, 2004 Letter: The transformers will be disposed of through DRMO & records will be maintained indicating the fate of their contents. (2006 EBS: The transformers that are not related to the lighting of the facility have already been removed. Pg 2-25 lines 18-19)
18.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Atch 1 Please clarify the meaning of "full operation" in the fifth bullet. How much activity was associated with less than full operation? Did the contractor conduct pilot or shakedown operations? How long did NOAA lease & operate the system? Was NOAA provided with Air Force operators or instructions?	Response from 7 July, 2004 Letter: The Air Force reduced operations between 1994 & 1996 to a min. level of contractor personnel, ~15. AF active duty personnel were also transitioned at this time. NOAA personnel never operated the OTHB Radar; they used existing contractor personnel. (2006 EBS: Pg 1-1, Lines 16-17)
19.		Comments for 2003 EA/EBS concerning the transmitter site	Denise Messier (MEDEP)	♦ Atch 2 Please see the comments above on the Final Environmental Assessment/Environmental Baseline Statement. Paragraph d contradicts the earlier report. Table 8.2-1 lists 7 sectors where petroleum has been released. The releases are not described in the text. Please describe each release & the actions taken to address it, along with any sampling & regulatory information. The EA/EBS includes photographs of tanks for coolants & fuels & a number of transformers but it does not certify that the fuels, coolants, or oils have been removed.	Response from 7 July, 2004 Letter: Petroleum has not been released at all these sites but is simple "Potential Env. Concerns" (2006 EBS: Pg 2-11, Sec. 2.3.2.2, Lines 16-23)
20.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ All references to the transfer of the Operations Building in Bangor and OTHB West will be put in a background/history section or deleted.	Response: Removed all references to other sites except in history section.
21.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ An asbestos survey of both facilities will be preformed and documented in section 3.4.12 for disclosure purposes.	Response: An asbestos survey is out of scope for a Phase I EBS. Building specs are in G-3 showing insulation contained fiberglass not asbestos.

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
22.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ All groundwater wells must be tested for metals, VOCs, SVOCs, radon, gross alpha, nitrates, nitrites, pesticides (for pesticides known to be used on site), and the Assurance Project Plan to MEDEP for review and approval prior sampling and analysis of the well water.	Response: Water testing was conducted and the results are in App. G-3 & discussed on Pg. 2-19 to 2-20 in hydrology section.
23.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Figures of each sector for both facilities, showing the locations of wells, septic systems, associated buildings, water tanks, transformers, etc. will be included.	Response: Building specs are included in App. G-3 & include piping layout, transformer locations, septic system layout, water tank composition, insulation material, plumbing layout, & water well location.
24.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Any inaccuracies in the current EBS will be explained in a response to comment letter to the satisfaction of MEDEP, then inaccurate information will deleted from the text of the revised final EBS.	Response: This was a statement directed to the receiver site & Deblois Range, but all statements from the previous EA/EBS that were inaccurate have been corrected/removed.
25.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ During site visits MEDEP had requested additional information on the maintenance materials, in particular paint supplies and cleaning supplies that were used at each site. However, MEDEP found this information (MSDS for January 2002) in Appendix F. It would be helpful to reference this information in the text of the EBSs so that it can be easily found.	Response: Pg 2-10, Lines 5-7; Appendix G-6 has hazardous material inventory sheets.
26.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ MEDEP also found the names of the pesticides/herbicides, quantity & frequency of the use used at the facility over the years; however more information is needed the potential impacts from pesticides/herbicides to environmental including persistence and impacts to soil, groundwater, surface water, and wildlife.	Response: It was deemed in the EA/EBS (2003) that there was no significant impact on soil, groundwater, surface water, & wildlife or any other areas in the human & natural environment affected by pesticide & herbicide use. (We've included water well lab results & UST removal report which includes soil testing in the appendix G-3)

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
27.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ The EBS should note if there are floor drains, locations, and where they discharge.	Response: Building specs are included in App. G-3 & include piping layout, transformer locations, septic system layout, water tank composition, insulation material, plumbing layout, & water well location. These should be sufficient to see floor drains, etc.
28.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Section 3.4.13 (Polychlorinated Biphenyls): must determine if the ban on PCBs preceded the construction of these facilities and whether the transformers could have contained transformer oil with PCBs.	Response: The transformers are labeled no PCBs (Pg 2-25; Section 2.13)
29.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Please discuss the status and disposal of the electrical equipment in the buildings.	Response: It was concluded that since the document warranted a FONSI that the disposal of the electrical equipment in the buildings did not pose a significant impact to the human & natural environment.
30.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Since these are remote sites, directions to the sites should be provided in the document.	Response: Not required. It was decided due to security these directions would not be included.
31.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ If the Air Force wants to include the discussion of the "dumps" on adjacent property the information should be included in section 5.0 (Findings on Adjacent Properties).	Response: This is a true statement. During site inspections no dumping on the site or adjacent properties was observed.
32.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ The additional information provided in the RTC letters (May 14, 2004 and July 7, 2004 should be incorporated into the revised EBS, as necessary.	Response: Correspondence is in Appendix G-1 & previous concerns are included in the matrix.
33.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Please provide the dates of the closure reports for the removal of the Underground Storage Tanks.	Response: See Table 2.3-1 on Pg. 2-13. Reports for their removal are also included in Appendix G-3.
34.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Section 3.4.2, para 2. Please explain the use of the Above Ground Storage Tank in Sector 1.	Response: Pg. 2-12, Section 2.3.4.1 discusses ASTs

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
35.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ Section 3.4.2, par 5. Please provide a brief explanation of the use of propylene glycol and ethylene glycol and the quantity, storage arrangements, and ultimate disposal.	Response: Pg 2-11, Lines 1-7
36.		Comments for 2003 EA/EBS concerning the transmitter site	Claudia Sait (MEDEP)	♦ MEDEP observed the stain on the floor of the Sector 3 building and has no further concerns, however please provide a brief description of the stain and the pitting for the EBS. It is doubtful the stain was caused by water so the source of the stain should be listed as unknown.	Response: Pg 2-11, Lines 16-19

REVIEW COMMENTS FORM ACC
PRELIMINARY FINAL EBS FOR
OTHB MOSCOW, MAINE
SEPTEMBER 27, 2006

#	*Page*	*Section/Line#*	*Reviewer*	*Comment*	*Response/Action Taken*
1.		Sec. 2.10.2 & 2.10.3	State of Maine	♦ In a May 3, 2005 comment letter the MEDEP state that, "All groundwater wells must be tested for metals, VOCs, SVOCs, radon, gross alpha, nitrates, nitrites, pesticides… and the results documented ACC's response as stated in the Prelim. Final EBS was, "Water testing was conducted and the results are in App. G-3 & discussed on pg. 2-19 to 2-20…" ♦ The discussion of groundwater in Section 2 relates only to arsenic and not to any other substances. Of the compounds listed in our May 3, 2005 letter the groundwater results presented in App G provide results only for arsenic, copper, lead, iron, manganese, nitrites, and nitrates. There is no indication that the groundwater was sampled for VOCs, SVOCs, radon, gross alpha, pesticides, or metals such as zinc and chromium. These results must be submitted with the EBS.	We have added tables which summarize the water results from the lab to include nitrates, nitrites, etc. Additional testing was never done by the AF so the levels for the other components mentioned are unknown; however, pesticides were never used at the site, only aerial spays for vegetation control.
2.			State of Maine	♦ MEDEP commented in our May 3, 2005 letter more information was needed regarding potential impacts from pesticides and herbicides to the environment. ACC responded that, "We've included water well lab results & UST removal report which includes soil testing in the appendix G-3." ♦ As discussed above ACC has not provided results of groundwater analysis for pesticides. Also, the UST removal report provided only PID readings of soil potentially contaminated by petroleum. Was ACC referring to some other soil testing results?	No other soil test exist, & additional testing was never done by the AF so the levels for the other components mentioned are unknown; however, pesticides were never used at the site, only aerial spays for vegetation control.
3.			State of Maine	♦ Response 29 in App. J states, "It was concluded that since the document warranted a FONSI…" ♦ Presumably this response is referring to the Finding of No Significant Impact in the 2003 EA/EBS. This is backwards reasoning. The nature of the status and disposal of the electrical equipment can support (or not) a FONSI determination, not the other way around. Indeed, the MEDEP has not yet concurred with the final EBS and therefore cannot accept the 2003 FONSI determination. Please provide other reasoning why the disposal of the electrical equipment in the buildings did not pose a significant	Contacted the caretakers, Native Energy & Technology, Inc. & they said the AF instructed them to leave all electrical equipment, systems, & spare parts on-site & these items would be transferred to the GSA along with the property.

#	Page	Section/Line#	Reviewer	Comment	Response/Action Taken
				impact to human health and the environment.	
4.			State of Maine	♦ We could not find a response to the second half of Comment 13 in our May 3, 2005 letter. That comment was, "…is MEDEP correct in assuming that neither site had an EPA ID number for generating hazardous waste?" Please respond to this comment.	The site is conditionally exempt and therefore does not have an EPA ID number. This has been discussed in section 2.3.2.
5.			State of Maine	♦ From email dated Dec. 7, 2006: "The only outstanding issue arises from some confusion on our part. We have commented previously on the lack of analytical results for VOCs & SVOCs in groundwater. Your Oct. 30, 2006 responses discussed the use of materials potentially containing VOCs/SVOCs……If it is not clear whether these products were used additional groundwater monitoring will be necessary. If it is clear the EBS will be considered final."	As stated in the January 23, 2007 correspondence in Appendix G-1: To summarize, the Air Force has not used solvents to clean any electrical components at the radar site in Moscow. However, there was a one-time use of solvents (paint thinner) to clean paint brushes; however, the paint thinner was properly disposed by Clean Harbors. The Air Force switched to using disposable brushes thereafter due to the disposal expense. Because of the virtual non-use of solvents at the Moscow ME radar site, we believe that no groundwater testing or monitoring is warranted.